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Water Year 1973. Part I
Surface Water Records

(U.S.) Geological Survey, Columbus, OH Water Resources Div

1974

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16. Abstracts

Water resources data for the 1973 water year for Ohio consist of stage, discharge of streams, lakes, and reservoirs. This report contains discharge records for 181 gaging stations; stage and contents for 29 lakes and reservoirs. Also included are 78 low-flow and 74 crest-stage partial-record stations. Additional water data were collected at various sites not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Ohio.

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1973

Water Resources Data for Ohio

Water Year 1973

Part 1. Surface Water Records

MARCH 3, 1849

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UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-73-1

Prepared in cooperation with the State of Ohio
and with other agencies

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

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1973

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1973

Water Resources Data for Ohio Water Year 1973

Part 1. Surface Water Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-73-1

1a

Prepared in cooperation with the State of Ohio
and with other agencies

Prepared in cooperation with

Ohio Department of Transportation
Ohio Department of Natural Resources
Ohio Environmental Protection Agency
Miami Conservancy District
City of Columbus
Corps of Engineers, U. S. Army

Water resources records, 1973, for Ohio are in the following reports of the U. S. Geological Survey:

1. Water Resources Data for Ohio
   Part 1: Surface Water Records

2. Water Resources Data for Ohio
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
975 W. Third Avenue
Columbus, Ohio 43212

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WATER RESOURCES DATA FOR OHIO, 1973

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water data for the 1973 water year for Ohio, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. Records are included for 203 gaging stations of which 175 are streamflow discharge stations and 28 are reservoir or lake stations; also are included records for 80 low-flow partial-record stations, 74 crest-stage partial record stations, and 107 miscellaneous sites. Locations of gaging stations are shown in figure 1. A few pertinent stations (not included above) in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. J. Molloy, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. The discharge and reservoir storage records for 1961-65 were also published in a Geological Survey water-supply paper series entitled, "Surface Water Supply of the United States 1961-65."

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. More information is given under the heading "Publications" on page 10.

COOPERATION

The U.S. Geological Survey and organizations of the State of Ohio have had cooperative agreements for the systematic collection of streamflow records since 1898. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Ohio Department of Natural Resources, W. B. Nye, director,
H. R. Collins, chief, Division of Geological Survey,
and Roy Winkle, chief, Division of Water.

Ohio Environmental Protection Agency, I. L. Whitman, director, and Ernie Neal, chief, Division of Surveillance.

Ohio Department of Transportation, J. P. Richley, director.

Miami Conservancy District, L. B. Coy, general manager and secretary.

City of Columbus, Department of Public Service, R. D. Jackson, director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 137 gaging stations published in this report, and by the Environmental Protection Agency, in collecting records for one gaging station published in this report. Assistance was also furnished by National Weather Service, NOAA, U.S. Department of Commerce.

The City of Canton furnished financial assistance in the collection of records for one gaging station published in this report.

Organizations that supplied data are acknowledged in station descriptions.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page .

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

CFS-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particluar site where limited streamflow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBER

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 03156400, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "156400." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 3 (Ohio River basin) and Part 4 (St. Lawrence River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

COLLECTION AND COMPUTATION OF DATA

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and the yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under

"PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximun discharge (or contents) and the maximum gage height (or elevation), the minimum discharge if there is little or no regulation (or minimum contents), and the minimum gage height (or elevation) if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "m" that only the instantaneous minimum was revised; and "P" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or inches (line headed "IN.". Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE". Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

ACCURACY OF DATA

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less that "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses are large in comparison with the observed discharge.

PUBLICATIONS

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Ohio for the period October 1960 to September 1965 are in Water-Supply Papers 1907, 1908, and 1912.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Ohio are compiled in water-supply papers 1305 and 1307 through September 1950, and in 1725 and 1727 for October 1950 through September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

OTHER DATA AVAILABLE

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on the water temperature, and on the sediment. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

RECORDS OF DISCHARGE COLLECTED BY AGENCIES OTHER THAN THE GEOLOGICAL SURVEY

Records of discharge not published by the Geological Survey were collected in Ohio at 24 sites during the water year 1973 by the following agencies: Records at 23 sites were collected by the National Weather Service; and by the Corps of Engineers, U.S. Army, at 1 site. Information on specific sites can be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

HYDROLOGIC CONDITIONS

Streamflow for the year was excessive. Annual mean discharges ranged from about 140 percent of average in northeastern Ohio to about 200 percent of average in the northwestern part of the State. Despite the unusually high runoff, there was no major flooding along the rivers.

Runoff was excessive throughout the State during the first quarter of the water year and near normal the second quarter. In central and western Ohio runoff was excessive each month of the second half of the year except May, which was near normal. In eastern Ohio the April to September runoff was near to slightly above average each month except May, which was excessive.

Figure 2, on page 12, for which three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges during the 1973 water year with the monthly and yearly median discharges for the period 1931-60.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
	Area	
acres	4047	square meters (m^2)
	.4047	*hectares (ha)
	.4047	square hectometer (hm^2)
	.004047	square kilometers (km^2)
square miles (mi^2)	2.590	square kilometers (km^2)
	Volume	
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3785	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	28.32	cubic decimeters (dm^3)
	.02832	cubic meters (m^3)
cfs-day (ft^3/s-day)	2447	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1233	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm^3/s)
	.02832	cubic meters per second (m^3/s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm^3/s)
	.04381	cubic meters per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

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*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

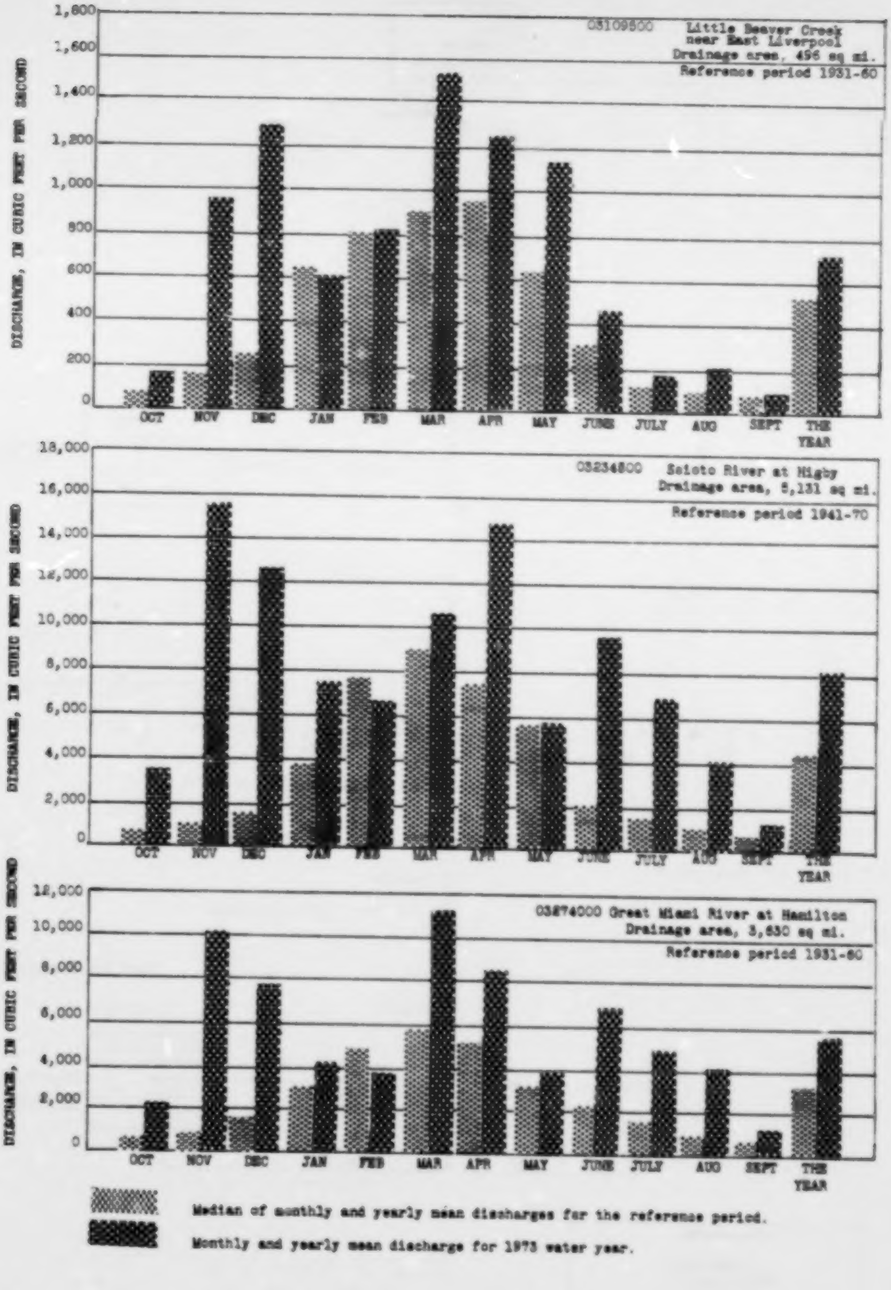

FIGURE 2.--RUNOFF DURING 1973 WATER YEAR COMPARED WITH MEDIAN RUNOFF FOR THE REFERENCE PERIOD FOR THREE REPRESENTATIVE GAGING STATIONS.

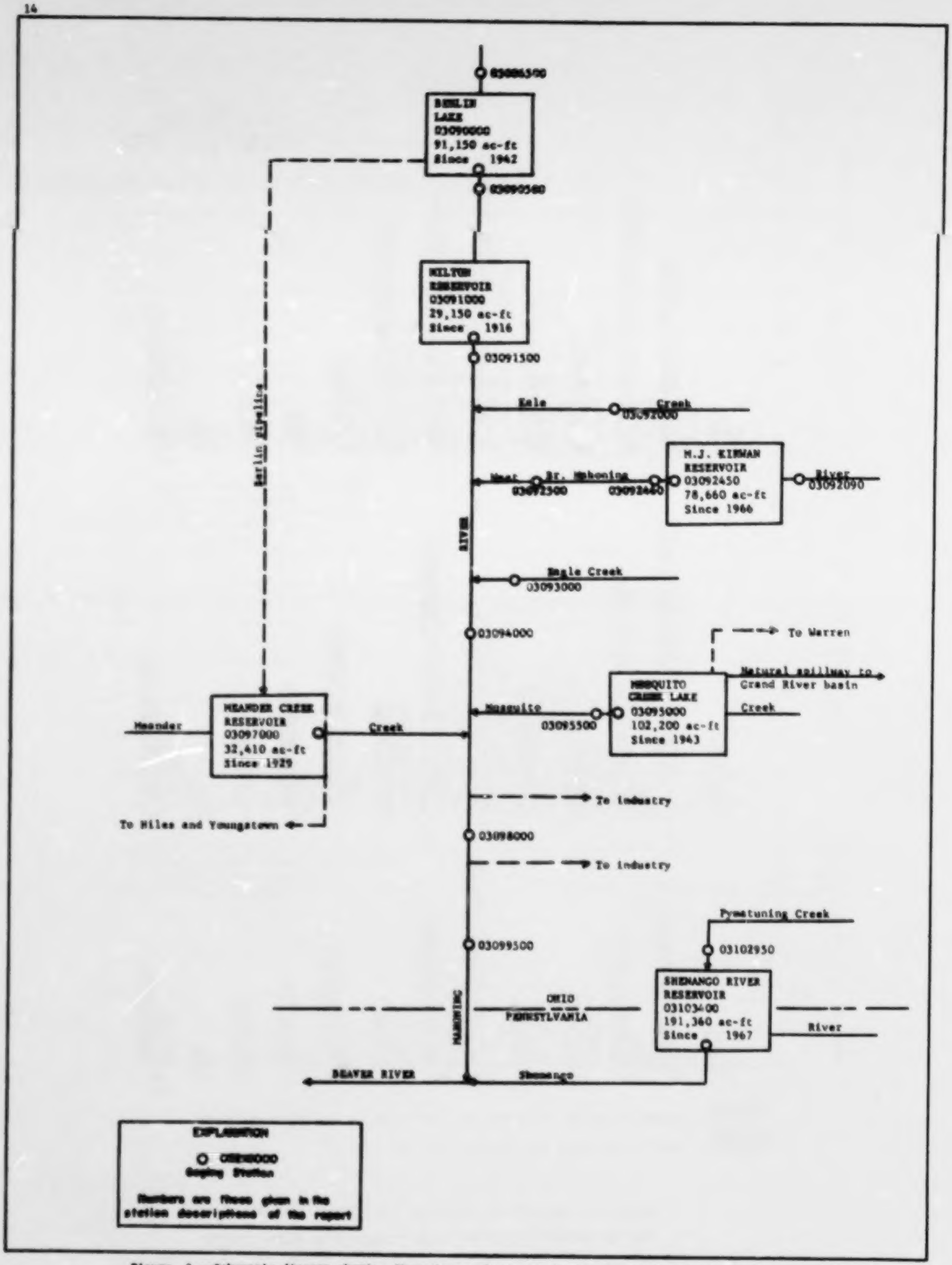
03086500
BERLIN LAKE
03090000
91,150 ac-ft
Since 1942
03090500
Berlin pipeline
MILTON RESERVOIR
03091000
29,150 ac-ft
Since 1916
03091500
Eagle Creek
03092000
West Br. Mahoning River
03092500
03092460
M.J. KIRWAN RESERVOIR
03092450
78,660 ac-ft
Since 1966
03092090
RIVER
Eagle Creek
03093000
03094000
To Warren
Natural spillway to Grand River basin
MOSQUITO CREEK LAKE
03095000
102,200 ac-ft
Since 1943
Mosquito Creek
03095500
Meander Creek
MEANDER CREEK RESERVOIR
03097000
32,410 ac-ft
Since 1929
To Niles and Youngstown
To industry
03098000
To industry
03099500
Pymatuning Creek
03102950
SHENANGO RIVER RESERVOIR
03103400
191,360 ac-ft
Since 1967
River
OHIO
PENNSYLVANIA
MAHONING
BEAVER RIVER
Shenango
EXPLANATION
Gaging Station
Numbers are those given in the station descriptions of the report

Figure 3.--Schematic diagram showing diversions and storage in the Beaver River basin in Ohio.

OHIO RIVER BASIN

BEAVER RIVER BASIN

03086500 Mahoning River at Alliance, Ohio

LOCATION.--Lat 40°55'58", long 81°05'41", in SE 1/4 sec.24, T.19 N., R.6 W., Stark County, on right bank 15 ft (5 m) upstream from Webb Avenue Bridge in Alliance, 0.2 mi (0.3 km) upstream from waterworks dam, and 4 mi (6 km) upstream from Beech Creek.

DRAINAGE AREA.--89.2 mi² (231 km²).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 1,037.3 ft (316.17 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--32 years, 80.9 ft³/s (2.291 m³/s), 12.32 in/yr (312.9 mm/yr), unadjusted for diversion 1941-55.

EXTREMES.--Current year: Maximum discharge, 2,310 ft³/s (65.4 m³/s) Mar. 15, gage height, 4.92 ft (1.500 m); minimum, 5.6 ft³/s (0.16 m³/s) Sept. 21, 22; minimum gage height, 1.54 ft (0.469 m) Aug. 8, 9, Sept. 21, 22.

Period of record: Maximum discharge, 9,740 ft³/s (276 m³/s) Jan. 21, 1959, gage height, 9.11 ft (2.777 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s) on basis of computation of peak flow over dam; no flow at times.

REMARKS.--Records good. Flow slightly regulated by Westville Reservoir 9.3 mi (15.0 km) upstream from station. Water- quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	50	83	85	75	93	130	124	96	26	19	24
2	60	192	79	72	298	141	253	102	72	21	19	14
3	39	548	86	64	507	166	162	100	68	19	15	12
4	29	314	97	338	220	210	210	97	161	19	14	11
5	26	126	192	264	130	234	649	84	130	20	12	11
6	24	83	325	114	107	309	320	64	169	19	11	12
7	24	76	610	71	153	166	153	56	123	17	10	12
8	24	314	243	52	145	126	187	58	81	17	9.2	9.3
9	20	335	363	42	126	97	234	129	57	15	8.8	9.3
10	18	162	352	38	86	104	379	198	46	17	13	9.3
11	18	114	220	34	73	107	293	509	37	16	21	7.9
12	26	93	137	31	57	122	192	355	34	14	20	7.9
13	34	79	346	27	53	104	130	199	70	12	14	7.9
14	26	535	278	26	66	192	100	131	41	12	29	7.9
15	20	766	183	29	205	1,720	83	102	29	14	130	7.9
16	18	314	396	31	170	683	73	90	33	11	90	6.7
17	20	157	187	34	104	482	79	92	53	11	44	6.7
18	20	114	122	39	86	407	374	82	423	11	97	9.3
19	22	100	107	56	66	293	253	68	326	11	57	11
20	22	288	252	78	73	298	145	167	97	20	44	7.9
21	22	210	366	45	83	304	111	173	56	237	192	5.6
22	24	141	315	96	79	229	97	99	41	103	104	12
23	26	114	212	193	76	166	104	130	33	37	44	14
24	29	90	144	121	73	170	107	344	30	25	29	12
25	29	79	113	79	73	153	90	544	38	27	24	11
26	26	141	108	77	73	341	79	250	31	37	20	11
27	26	162	124	113	69	210	187	136	25	135	18	9.3
28	26	130	97	206	73	126	652	251	31	55	18	9.3
29	41	107	83	234	------	114	398	209	43	30	14	29
30	44	86	79	109	------	175	170	135	31	23	12	22
31	41	------	81	84	------	162	------	126	------	19	29	------
TOTAL	946	6,020	6,380	2,882	3,399	8,204	6,394	5,204	2,505	1,050	1,181.0	340.2
MEAN	30.5	201	206	93.0	121	265	213	168	83.5	33.9	38.1	11.3
MAX	122	766	610	338	507	1,720	652	544	423	237	192	29
MIN	18	50	79	26	53	93	73	56	25	11	8.8	5.6
CFSM	.34	2.25	2.31	1.04	1.36	2.97	2.39	1.88	.94	.38	.43	.13
IN.	.39	2.51	2.66	1.20	1.42	3.42	2.67	2.17	1.04	.44	.49	.14

CAL YR 1972 TOTAL 41,813.3 MEAN 114 MAX 1,040 MIN 6.7 CFSM 1.28 IN 17.44
WTR YR 1973 TOTAL 44,505.2 MEAN 122 MAX 1,720 MIN 5.6 CFSM 1.37 IN 18.56

PEAK DISCHARGE (BASE, 900 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0200	3.34	948	3-15	1200	4.92	2,310

03090500 Mahoning River below Berlin Dam, near Berlin Center, Ohio

LOCATION.--Lat 41°02'54", long 81°00'05", in T.1 N., R.6 W., Mahoning County, on left bank 600 ft (183 m) downstream from Berlin Dam and 3.2 mi (5.1 km) northwest of Berlin Center.

DRAINAGE AREA.--248 mi^2 (642 km^2).

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1942, published as "near Berlin Center".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 958.00 ft (291.998 m) above mean sea level, levels by Corps of Engineers. Prior to Oct. 1, 1942, at site 1.8 mi (2.9 km) upstream at datum 966.15 ft (294.482 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Oct. 1, 1942, to May 11, 1949, at site 200 ft (61 m) downstream from present site at datum 8.00 ft (2.438 m) lower than present datum.

AVERAGE DISCHARGE.--43 years, 221 ft^3/s (6.259 m^3/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,940 ft^3/s (54.9 m^3/s) Mar. 22, gage height, 4.41 ft (1.344 m); minimum daily, 13 ft^3/s (0.37 m^3/s) several days in January and February, gage height, 1.01 ft (0.308 m).

Period of record: Maximum discharge, 8,630 ft^3/s (244 m^3/s) Jan. 25, 1937, gage height, 10.97 ft (3.344 m), site and datum then in use; no flow at times during 1948-49, 1967, 1970-71.

REMARKS.--Records good. Flow regulated since 1942 by Berlin Lake (see station 03090000). Small diversion since 1958 from Berlin Lake to Meander Creek Reservoir (see station 03097000) by the Berlin Pipeline. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Twelve discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 743: 1932. WSP 853: 1936. WSP 873: 1932-34, 1935(M), 1936-38. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	582	67	532	684	13	171	448	614	630	238	171	179
2	582	68	305	692	15	171	454	606	346	238	171	179
3	526	143	305	694	14	224	766	606	175	238	179	179
4	472	322	305	680	13	280	894	598	175	238	199	224
5	430	394	305	690	13	364	902	598	175	238	199	265
6	305	394	310	716	52	442	980	598	179	238	195	265
7	215	394	310	722	94	448	1,040	598	179	238	195	265
8	207	460	310	724	94	454	1,030	598	151	238	199	265
9	207	582	316	528	75	454	950	598	100	238	211	265
10	211	574	316	186	49	454	894	606	100	238	220	265
11	224	574	316	70	50	454	894	654	100	238	220	265
12	238	574	316	70	50	454	894	710	100	238	220	265
13	153	574	322	69	49	454	582	710	103	233	233	265
14	66	418	322	69	49	460	290	710	103	238	251	265
15	66	242	322	48	50	484	285	526	103	238	251	265
16	66	376	334	22	51	502	285	358	103	238	251	260
17	67	598	334	22	50	508	285	358	103	195	251	260
18	67	678	334	22	50	726	290	358	171	191	251	265
19	67	678	316	23	49	1,040	295	364	238	195	251	260
20	67	678	322	23	49	1,130	295	364	238	199	251	260
21	67	678	322	23	49	1,350	295	364	242	199	270	260
22	67	670	322	23	50	1,750	295	364	242	199	305	260
23	67	670	503	23	50	1,890	295	364	242	207	305	260
24	67	670	696	20	50	1,850	265	364	242	171	305	260
25	67	670	694	13	50	1,800	155	484	238	171	305	215
26	67	670	694	13	106	1,760	63	638	238	167	305	167
27	67	670	695	13	171	1,400	64	638	238	167	305	171
28	67	662	693	14	171	734	65	638	238	167	280	171
29	67	662	693	14	------	436	224	630	238	171	270	171
30	67	662	686	13	------	442	544	630	238	171	224	171
31	67	------	685	13	------	442	------	630	------	171	179	------
TOTAL	5,555	15,472	13,235	6,936	1,626	23,528	15,018	16,876	5,968	6,544	7,422	7,087
MEAN	179	516	427	224	58.1	759	501	544	199	211	239	236
MAX	582	678	696	724	171	1,890	1,040	710	630	238	305	265
MIN	66	67	305	13	13	171	63	358	100	167	171	167

CAL YR 1972 TOTAL 118,891.7 MEAN 325 MAX 1,940 MIN 1.3
WTR YR 1973 TOTAL 125,267.0 MEAN 343 MAX 1,890 MIN 13

Note: No diversion during the year.
By the Mahoning Valley Sanitary District.

03091500 Mahoning River at Pricetown, Ohio

LOCATION.--Lat 41°07'53", long 80°58'17", in T.2 N., R.5 W., Mahoning County, on left bank 0.3 mi (0.5 km) downstream from Milton Dam. 0.5 mi (0.8 km) southwest of Pricetown, and 3 mi (5 km) upstream from Kale Creek.

DRAINAGE AREA.--273 mi^2 (707 km^2).

PERIOD OF RECORD.--July 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 905.00 ft (275.844 m) above mean sea level, adjustment of 1912. Prior to Aug. 14, 1929 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 243 ft^3/s (6.882 m^3/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Mar. 27, 28, gage height, 4.70 ft (1.433 m); minimum, 15 ft^3/s (0.42 m^3/s) Feb. 14.

Period of record: Maximum discharge, 6,770 ft^3/s (192 m^3/s) Jan. 25, 1937, gage height, 15.01 ft (4.575 m), from rating curve extended above 4,200 ft^3/s (119 m^3/s) on basis of velocity-area studies; minimum, 0.4 ft^3/s (0.011 m^3/s) Nov. 9, 10, 1941, Feb. 19-21, Oct. 10-21, 1945.

REMARKS.--Records good. Flow regulated by Berlin Lake beginning 1942 and Milton Reservoir (see stations 03090000 and 03091000). Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Thirteen discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 728: 1930(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	708	164	788	900	225	159	948	122	680	120	173	255
2	708	164	780	896	222	202	952	237	376	122	173	255
3	648	164	776	808	215	250	940	511	250	122	177	252
4	602	164	772	752	202	252	940	640	240	124	186	252
5	465	164	668	748	130	314	944	633	237	124	186	252
6	319	193	394	748	76	376	936	633	240	124	186	252
7	319	235	280	744	75	364	936	630	240	124	186	252
8	319	301	280	728	76	349	940	616	215	126	188	252
9	319	577	283	720	75	346	948	623	155	128	193	252
10	319	577	283	553	75	352	948	630	155	128	198	252
11	317	577	283	275	72	364	948	633	157	130	200	252
12	317	574	285	270	70	391	944	640	148	130	200	252
13	278	574	288	267	70	418	944	640	118	130	205	252
14	215	458	373	265	67	430	936	640	113	130	217	252
15	212	309	521	260	72	476	920	644	107	132	217	252
16	212	522	507	255	72	479	900	633	109	159	217	252
17	205	840	493	250	70	493	884	626	113	177	217	252
18	168	840	486	245	70	532	868	521	113	179	217	252
19	166	836	479	242	70	626	848	391	113	179	217	252
20	166	832	476	235	69	704	828	397	115	179	217	252
21	166	828	469	230	69	780	804	349	116	179	232	252
22	166	824	504	225	69	864	776	222	116	247	275	252
23	166	820	704	220	67	916	744	227	116	291	324	255
24	166	820	700	252	66	952	574	230	120	173	324	252
25	166	816	704	309	66	960	267	327	120	173	324	220
26	166	812	708	298	83	974	113	676	120	173	324	179
27	164	808	840	285	105	996	115	680	116	173	324	179
28	164	804	936	272	124	1,000	116	680	122	173	324	179
29	164	800	928	267	------	978	115	680	118	173	306	186
30	164	796	916	255	------	965	118	684	118	173	283	181
31	164	------	904	237	------	956	------	684	------	173	255	------
TOTAL	8,798	17,193	17,808	13,011	2,722	18,218	22,194	16,479	5,176	4,868	7,265	7,181
MEAN	284	573	574	420	97.2	588	740	532	173	157	234	239
MAX	708	840	936	900	225	1,000	952	684	680	291	324	255
MIN	164	164	280	220	66	159	113	122	107	120	173	179

CAL YR 1972 TOTAL 135,452 MEAN 370 MAX 2,150 MIN 53
WTR YR 1973 TOTAL 140,913 MEAN 386 MAX 1,000 MIN 66

03092000 Kale Creek near Pricetown, Ohio

LOCATION.--Lat 41°08'23", long 80°59'43", in T.3 N., R.5 W., Trumbull County, on right bank at downstream side of county line road bridge, 0.4 mi (0.6 km) north of Mahoning-Trumbull County line, 1.5 mi (2.4 km) northwest of Pricetown, 2.2 mi (3.5 km) upstream from mouth, and 3.5 mi (5.6 km) south of Newton Falls.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

PERIOD OF RECORD.--October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 914.70 ft (278.800 m) above mean sea level, adjustment of 1912. Prior to June 27, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 21.1 ft^3/s (0.598 m^3/s), 13.09 in/yr (332.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) Mar. 15, gage height, 5.90 ft (1.798 m); minimum, 0.33 ft^3/s (0.009 m^3/s) Oct. 9.

Period of record: Maximum discharge, 3,890 ft^3/s (110 m^3/s) Jan. 21, 1959, gage height, 8.52 ft (2.597 m); no flow at times in 1952-55, 1962-66.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 973: 1942. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.5	7.2	11	11	24	45	16	11	2.5	1.3	.81
2	3.0	13	6.6	8.8	108	69	413	11	5.7	1.8	19	.81
3	.88	32	8.8	6.3	161	74	65	11	5.6	1.3	6.6	.75
4	.53	11	11	223	47	103	97	10	69	1.1	3.3	.75
5	.44	2.8	31	66	25	100	321	8.1	20	1.1	1.9	.88
6	.41	1.4	141	22	18	122	60	6.3	8.1	1.0	1.3	1.1
7	.41	1.1	171	11	36	49	28	4.9	12	.88	1.0	.88
8	.35	62	34	6.3	39	30	33	7.8	9.5	.81	.96	.70
9	.35	48	70	3.9	31	18	48	79	4.4	.81	.88	.66
10	.38	12	64	2.6	14	24	129	125	3.0	.88	.96	.62
11	.56	5.7	37	2.0	7.0	34	90	240	2.2	.88	1.3	.59
12	.75	4.7	37	1.8	4.7	62	46	58	1.9	.88	3.9	.62
13	.96	2.8	261	1.6	3.2	39	23	36	1.8	.88	2.5	.59
14	1.1	227	74	1.6	4.2	110	13	18	1.3	.96	1.4	.59
15	1.0	183	41	2.2	33	819	9.5	11	1.0	1.5	1.9	.62
16	1.1	46	107	1.8	37	76	7.4	9.5	1.3	1.3	1.9	.62
17	1.4	20	40	2.2	22	85	6.8	9.9	6.6	1.0	1.5	.62
18	1.4	11	24	2.6	8.5	64	14	13	254	.96	1.6	.66
19	1.6	7.8	15	4.7	5.2	70	18	10	61	.88	1.3	.66
20	1.8	58	103	6.0	5.7	92	11	41	13	1.3	1.8	.62
21	1.9	44	164	5.7	7.2	101	8.8	20	18	28	47	.66
22	3.0	19	118	8.1	9.5	70	6.8	16	7.8	16	11	.88
23	3.9	14	55	54	9.9	59	6.5	36	3.5	3.9	3.3	2.2
24	5.4	8.8	28	34	9.5	100	6.3	88	3.2	2.2	1.8	1.9
25	6.9	6.3	17	22	9.0	73	5.4	231	4.4	2.3	1.2	1.3
26	6.9	13	16	12	9.0	161	4.7	46	3.3	4.9	1.0	.96
27	6.9	33	28	11	9.0	54	19	19	2.2	8.1	.88	.96
28	6.6	27	17	42	10	24	260	36	2.6	4.9	.75	.96
29	7.8	19	11	82	------	19	67	29	7.2	2.6	.81	10
30	7.8	10	8.8	28	------	58	27	14	3.9	1.5	.75	19
31	8.5	------	8.8	14	------	59	------	14	------	1.2	.96	------
TOTAL	104.02	951.9	1.755.2	700.2	693.6	2,842	1,889.2	1.274.5	548.5	98.32	125.75	52.97
MEAN	3.36	31.7	56.6	22.6	24.8	91.7	63.0	41.1	18.3	3.17	4.06	1.77
MAX	20	227	261	223	161	819	413	240	254	28	47	19
MIN	.35	1.1	6.6	1.6	3.2	18	4.7	4.9	1.0	.81	.75	.59
CFSM	.15	1.45	2.58	1.03	1.13	4.19	2.88	1.88	.84	.14	.19	.08
IN.	.18	1.62	2.98	1.19	1.18	4.83	3.21	2.16	.93	.17	.21	.09

CAL YR 1972 TOTAL 11.560.76 MEAN 31.6 MAX 992 MIN .13 CFSM 1.44 IN 19.64
WTR YR 1973 TOTAL 11.036.16 MEAN 30.2 MAX 819 MIN .35 CFSM 1.38 IN 18.75

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	0430	5.90	1,320	4-5	0500	4.41	528
4-2	0800	4.67	628				

03092090 West Branch Mahoning River near Ravenna, Ohio

LOCATION.--Lat 41°09'41", long 81°11'50", in T.3 N., R.8 W., Portage County, on left bank at downstream side of bridge on Newton Falls Road, 2.5 mi (4.0 km) east of Ravenna.

DRAINAGE AREA.--21.8 mi² (56.5 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,011.8 ft (308.40 m) above mean sea level, Portage County bench mark.

AVERAGE DISCHARGE.--8 years, 25.2 ft³/s (0.714 m³/s), 15.70 in/yr (398.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 816 ft³/s (23.1 m³/s) Mar. 15, gage height, 6.54 ft (1.993 m); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 7-9, Sept. 12.
Period of record: Maximum discharge, 2,090 ft³/s (59.2 m³/s) Apr. 15, 1972, gage height, 8.81 ft (2.685 m); minimum, 0.45 ft³/s (0.013 m³/s) Sept. 11, 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	6.2	18	33	24	41	91	21	25	5.2	3.3	2.5
2	28	29	18	23	229	101	245	19	16	4.5	3.3	2.2
3	15	39	22	23	149	115	64	19	27	3.7	2.9	2.1
4	11	21	22	189	57	97	149	17	126	3.5	2.5	1.9
5	6.9	16	36	58	35	112	211	15	37	3.5	2.2	2.1
6	5.9	12	166	27	33	118	62	13	84	3.5	2.1	2.9
7	5.6	17	88	18	51	55	36	11	45	3.1	1.9	2.9
8	4.3	100	38	15	42	38	40	16	20	2.5	1.8	2.4
9	2.3	62	56	12	30	27	42	60	13	2.2	2.5	2.2
10	2.1	30	44	10	23	35	128	111	9.7	3.1	2.2	2.1
11	2.1	28	28	8.7	18	42	93	93	7.7	2.9	3.9	1.9
12	3.6	23	44	8.4	14	49	53	33	10	2.7	5.5	1.9
13	4.0	19	176	8.0	11	32	30	22	21	2.5	3.7	1.8
14	4.6	318	60	8.0	16	128	23	18	11	2.9	10	2.2
15	4.0	125	38	9.0	65	412	21	19	7.1	7.4	21	2.2
16	2.7	49	30	10	37	75	19	16	22	4.3	7.7	2.1
17	2.5	30	26	13	27	91	20	19	22	2.9	9.0	1.9
18	3.2	23	24	17	17	62	24	21	18	2.5	7.1	2.7
19	3.0	21	25	24	15	74	22	16	13	2.2	3.9	2.7
20	2.7	44	91	23	15	80	18	71	9.0	4.7	4.7	2.4
21	2.7	36	126	17	17	77	16	45	7.1	18	9.0	2.4
22	3.4	27	147	30	17	56	15	23	5.7	7.4	6.3	3.7
23	6.6	25	80	56	16	70	24	89	4.7	4.3	4.3	4.3
24	9.5	21	46	30	15	118	19	79	7.1	3.5	3.3	2.9
25	6.2	19	33	21	15	121	15	37	6.6	5.7	2.9	2.5
26	4.6	27	32	21	15	135	13	33	4.7	7.4	2.5	2.5
27	4.3	33	33	22	15	55	37	24	4.1	22	2.4	2.5
28	3.6	31	27	44	19	33	173	29	6.6	8.7	2.1	2.9
29	7.2	23	23	51	------	80	53	23	7.1	5.2	2.1	17
30	10	19	26	29	------	118	27	21	4.9	3.7	2.1	16
31	7.2	------	33	20	------	59	------	61	------	3.1	2.4	------
TOTAL	261.8	1,273.2	1,656	878.1	1,037	2,706	1,783	1,094	602.1	158.8	140.6	101.8
MEAN	8.45	42.4	53.4	28.3	37.0	87.3	59.4	35.3	20.1	5.12	4.54	3.39
MAX	83	318	176	189	229	412	245	111	126	22	21	17
MIN	2.1	6.2	18	8.0	11	27	13	11	4.1	2.2	1.8	1.8
CFSM	.39	1.95	2.45	1.30	1.70	4.00	2.72	1.62	.92	.23	.21	.16
IN.	.45	2.17	2.83	1.50	1.77	4.62	3.04	1.87	1.03	.27	.24	.17

CAL YR 1972 TOTAL 11,407.28 MEAN 31.2 MAX 1,020 MIN .73 CFSM 1.43 IN 19.47
WTR YR 1973 TOTAL 11,692.40 MEAN 32.0 MAX 412 MIN 1.8 CFSM 1.47 IN 19.95

PEAK DISCHARGE (BASE, 450 FT³/S).--Mar. 15 (0500) 816 FT³/S (6.54 ft).

03092460 West Branch Mahoning River below Michael J. Kirwan Dam, at Wayland, Ohio

LOCATION.--Lat 41°09'25", long 81°04'19", in T.3 N., R.6 W., Portage County, on right bank 200 ft (61 m) upstream from bridge on Wayland Road, 0.4 mi (0.6 km) downstream from Michael J. Kirwan Dam, and 0.2 mi (0.3 km) south of Wayland.

DRAINAGE AREA.--81.7 mi² (212 km²).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1969 published as West Branch Mahoning River below West Branch Dam, at Wayland.

GAGE.--Water-stage recorder. Datum of gage is 926.44 ft (282.379 m) above mean sea level, levels by Corps of Engineers. Prior to October 1971 at datum 0.89 ft (0.271 m) higher.

AVERAGE DISCHARGE.--5 years, 94.6 ft³/s (2.679 m³/s).

EXTREMES.--Current year: Maximum discharge, 523 ft³/s (14.8 m³/s) Apr. 11; maximum gage height, 7.69 ft (2.344 m) Mar. 25; minimum discharge, 17 ft³/s (0.48 m³/s) Oct. 2-11.

Period of record: Maximum discharge, 1,380 ft³/s (39.1 m³/s) Feb. 25, 1971, gage height, 11.82 ft (3.603 m) present datum; minimum, 1.3 ft³/s (0.037 m³/s) Apr. 9, 1969.

REMARKS.--Records good. Flow completely regulated by Michael J. Kirwan Reservoir (see station 03092450). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Eleven discharge measurements furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	110	201	290	43	41	143	32	151	89	42	60
2	17	114	200	289	51	41	126	41	152	89	49	42
3	17	113	199	293	45	42	77	41	153	89	60	42
4	17	112	200	305	43	41	87	33	158	89	60	54
5	17	111	200	287	42	44	82	24	159	89	60	69
6	17	110	183	293	41	43	170	24	159	97	60	69
7	17	113	105	291	39	41	252	23	159	105	60	69
8	17	116	103	298	41	41	253	24	159	105	60	69
9	17	111	104	298	41	40	253	26	159	105	60	69
10	17	110	103	262	40	41	261	54	159	107	60	69
11	17	110	102	148	40	41	362	169	159	106	60	69
12	18	108	110	95	40	41	522	287	145	106	60	71
13	53	110	143	95	40	63	519	287	120	106	59	73
14	94	119	204	94	41	108	516	285	103	107	59	76
15	97	113	204	93	42	112	513	285	103	108	59	76
16	97	152	206	93	41	97	419	259	104	89	59	76
17	99	210	210	69	40	142	237	133	88	70	60	76
18	100	208	261	42	40	194	143	55	70	70	59	76
19	101	206	307	42	40	240	71	41	52	68	59	76
20	101	209	311	42	40	330	34	42	35	70	62	75
21	102	205	310	42	40	433	25	94	54	58	62	75
22	102	203	309	43	40	495	24	151	69	68	51	76
23	103	203	302	43	40	498	24	157	76	55	42	75
24	103	202	298	42	40	499	23	157	87	81	41	75
25	103	201	296	42	40	498	23	152	87	85	41	75
26	103	203	296	41	39	502	23	154	88	66	41	75
27	105	202	296	42	39	493	26	154	88	43	41	75
28	106	201	294	43	40	369	28	155	88	42	41	76
29	108	201	291	43	------	250	24	151	88	42	41	80
30	108	201	291	41	------	254	24	140	89	42	56	78
31	108	------	290	41	------	250	------	141	------	42	75	------
TOTAL	2,099	4,687	6,929	4,182	1,148	6,324	5,284	3,771	3,361	2,488	1,699	2,116
MEAN	67.7	156	224	135	41.0	204	176	122	112	80.3	54.8	70.5
MAX	108	210	311	305	51	502	522	287	159	108	75	80
MIN	17	108	102	41	39	40	23	23	35	42	41	42

CAL YR 1972 TOTAL 38,016 MEAN 104 MAX 967 MIN 15
WTR YR 1973 TOTAL 44,088 MEAN 121 MAX 522 MIN 17

03092500 West Branch Mahoning River near Newton Falls, Ohio

LOCATION.--Lat 41°10'18", long 81°01'16", in T.3 N., R.6 W., Trumbull County, on right bank 250 ft (76 m) downstream from bridge on Newton Falls Road, 2.5 mi (4.0 km) southwest of Newton Falls, 6 mi (10 km) upstream from mouth, and 5 mi (8 km) downstream from Michael J. Kirwan Dam.

DRAINAGE AREA.--96.3 mi^2 (249 km^2).

PERIOD OF RECORD.--June 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 912.2 ft (278.04 m) above mean sea level, Corps of Engineers bench mark. Prior to Aug. 30, 1929, nonrecording gage at site 75 ft (23 m) upstream at same datum.

AVERAGE DISCHARGE.--47 years, 95.2 ft^3/s (2.696 m^3/s).

EXTREMES.--Current year: Maximum discharge, 792 ft^3/s (22.4 m^3/s) Mar. 15, gage height, 5.81 ft (1.771 m); minimum, 15 ft^3/s (0.42 m^3/s) Feb. 13.

Period of record: Maximum discharge, 8,340 ft^3/s (236 m^3/s) Jan. 22, 1959, gage height, 13.60 ft (4.145 m); minimum, 2.1 ft^3/s (0.059 m^3/s) Sept. 20, 1964.

REMARKS.--Records good. Flow regulated by Michael J. Kirwan Reservoir (see station 03092450) since December 1966. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 973: 1926-30, 1933, 1934(M), 1936-38, 1939(M), 1940. WSP 1385: 1929(M), 1945. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	96	186	257	43	61	271	45	152	102	44	71
2	24	102	186	252	148	88	376	60	148	102	48	42
3	21	109	168	251	114	88	154	58	148	102	64	42
4	20	102	189	373	64	93	186	52	211	102	63	50
5	20	99	200	284	52	111	239	37	180	102	61	79
6	20	97	280	261	50	111	191	34	157	105	61	79
7	20	98	168	257	60	74	276	33	154	118	61	79
8	20	132	122	257	58	63	287	34	150	118	61	79
9	20	119	138	254	52	55	284	69	146	118	61	79
10	19	106	131	240	44	60	349	123	146	120	61	79
11	20	104	118	163	42	64	355	198	144	120	61	79
12	20	101	124	110	43	74	481	261	144	118	64	79
13	36	100	246	100	44	74	469	252	144	118	61	79
14	93	255	206	96	42	161	461	247	122	120	61	79
15	93	171	189	96	66	442	457	247	122	125	63	79
16	93	142	206	96	58	152	413	227	125	111	63	79
17	93	195	188	86	55	182	247	157	118	84	63	79
18	93	190	209	43	50	220	186	76	176	84	66	79
19	93	188	263	45	43	247	113	48	95	83	63	79
20	93	209	317	47	43	322	58	63	51	84	64	77
21	93	200	347	42	45	418	39	91	60	93	111	77
22	94	194	349	45	47	494	37	150	86	48	69	79
23	98	191	297	63	47	497	38	173	88	48	45	79
24	98	189	274	51	47	528	37	197	104	83	43	79
25	97	187	264	43	47	517	36	229	104	98	43	77
26	96	192	264	42	47	556	34	169	102	95	43	79
27	96	197	268	43	45	488	48	157	102	63	39	79
28	96	194	261	60	47	421	150	169	104	48	42	79
29	97	190	257	72	------	282	68	157	104	44	42	95
30	97	187	256	50	------	311	47	144	102	43	50	93
31	96	------	256	43	------	290	------	152	------	43	79	------
TOTAL	2,005	4,636	6,947	4,122	1,543	7,544	6,387	4,109	3,789	2,842	1,820	2,283
MEAN	64.7	155	224	133	55.1	243	213	133	126	91.7	58.7	76.1
MAX	98	255	349	373	148	556	481	261	211	125	111	95
MIN	19	96	118	42	42	55	34	33	51	43	39	42

CAL YR 1972 TOTAL 41,889 MEAN 114 MAX 934 MIN 17
WTR YR 1973 TOTAL 48,027 MEAN 132 MAX 556 MIN 19

03093000 Eagle Creek at Phalanx Station, Ohio

LOCATION.--Lat 41°15'40", long 80°57'16", Trumbull County, on right bank 75 ft (23 m) downstream from county road bridge, 1 mi (2 km) north of Phalanx Station, 2 mi (3 km) downstream from Tinkers Creek, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--97.6 mi^2 (253 km^2).

PERIOD OF RECORD.--June 1926 to September 1934, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 887.42 ft (270.485 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Prior to Sept. 14, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 104 ft^3/s (2.945 m^3/s), 14.47 in/yr (367.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,770 ft^3/s (78.4 m^3/s) Mar. 15, gage height, 11.48 ft (3.499 m); minimum, 9.5 ft^3/s (0.27 m^3/s) Aug. 29.

Period of record: Maximum discharge, 6,700 ft^3/s (190 m^3/s) Jan. 22, 1959, gage height, 13.12 ft (3.999 m); minimum, 0.6 ft^3/s (0.017 m^3/s) Aug. 4, 1939; minimum daily, 0.9 ft^3/s (0.025 m^3/s) Aug. 4, 1939.

REMARKS.--Records good. Low flow slightly regulated by mill several miles upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 953: 1938-41. WSP 1385: 1927-30, 1931-32(M), 1934, 1938-41(P). WSP 1555: 1928(M), 1929. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	841	37	94	145	93	96	234	136	156	43	26	22
2	414	79	91	127	278	206	519	110	95	38	25	21
3	150	210	102	94	601	302	458	107	75	34	24	18
4	83	186	111	325	372	337	289	99	340	35	22	17
5	59	114	146	476	210	322	710	96	386	37	22	15
6	50	77	263	222	154	474	448	83	191	33	20	18
7	48	62	528	134	181	356	242	67	162	29	17	24
8	44	241	300	110	196	229	199	62	118	28	17	19
9	36	398	221	80	164	167	217	238	76	26	16	19
10	29	261	243	60	117	150	282	347	55	25	17	17
11	26	170	194	50	90	180	386	366	41	28	18	15
12	27	152	150	45	70	215	288	276	34	25	19	14
13	32	119	330	41	61	182	208	168	78	23	20	14
14	33	433	466	40	53	184	157	123	94	24	16	15
15	31	1,110	252	42	140	1,560	132	105	45	37	82	20
16	27	421	200	47	178	908	113	97	78	36	52	20
17	26	232	180	55	140	365	100	96	195	23	27	18
18	28	165	160	69	110	398	109	101	145	20	22	15
19	26	130	150	86	83	314	115	78	98	19	23	17
20	26	155	202	109	72	315	103	146	64	20	21	16
21	31	203	365	84	73	322	97	241	52	105	101	15
22	29	176	458	75	79	290	83	148	49	80	79	15
23	31	151	472	179	80	260	102	184	41	37	32	20
24	49	130	313	187	76	351	103	346	58	25	23	19
25	41	107	217	118	70	381	78	268	67	103	20	16
26	33	118	176	98	70	428	67	185	49	137	20	14
27	33	172	182	91	70	365	88	140	44	162	17	13
28	30	177	160	132	72	215	356	130	39	142	14	14
29	36	148	128	206	------	196	434	127	55	58	13	73
30	49	109	112	160	------	292	206	109	49	36	15	162
31	40	------	126	110	------	337	------	136	------	27	17	------
TOTAL	2,438	6,243	7,092	3,797	3,953	10,697	6,923	4,915	3,029	1,495	857	715
MEAN	78.6	208	229	122	141	345	231	159	101	48.2	27.6	23.8
MAX	841	1,110	528	476	601	1,560	710	366	386	162	101	162
MIN	26	37	91	40	53	96	67	62	34	19	13	13
CFSM	.81	2.13	2.35	1.25	1.44	3.53	2.37	1.63	1.03	.49	.28	.24
IN.	.93	2.38	2.70	1.45	1.51	4.08	2.64	1.87	1.15	.57	.33	.27

CAL YR 1972 TOTAL 49,348.5 MEAN 135 MAX 1,910 MIN 8.5 CFSM 1.38 IN 18.81
WTR YR 1973 TOTAL 52,154.0 MEAN 143 MAX 1,560 MIN 13 CFSM 1.47 IN 19.88

PEAK DISCHARGE (BASE, 1,300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0630	10.61	1,470	3-15	1730	11.48	2,770

03094000 Mahoning River at Leavittsburg, Ohio

LOCATION.--Lat 41°14'21", long 80°52'51", in T.4 N., R.4 W., Trumbull County, on right bank at upstream side of Leavitt Road Bridge at Leavittsburg, 300 ft (91 m) downstream from Duck Creek and 1.2 mi (1.9 km) downstream from Eagle Creek.

DRAINAGE AREA.--575 mi^2 (1,489 km^2).

PERIOD OF RECORD.--October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 871.25 ft (265.557 m) above mean sea level, adjustment of 1912. Prior to July 2, 1941, nonrecording gage, and July 2, 1941, to July 22, 1952, water-stage recorder, at site 50 ft (15 m) downstream at same datum. AVERAGE DISCHARGE.--33 years, 538 cfs.

EXTREMES.--Current year: Maximum discharge, 4,400 ft^3/s (125 m^3/s) Mar. 15, gage height, 10.63 ft (3.240 m); minimum, 217 ft^3/s (6.15 m^3/s) Feb. 13.

Period of record: Maximum discharge, 20,300 ft^3/s (575 m^3/s) Jan. 22, 1959, gage height, 19.37 ft (5.904 m); minimum, 55 ft^3/s (1.56 m^3/s) July 7, 1952.

Flood of Mar. 26, 1913 reached a stage of about 24 ft (7 m). Flood of Jan. 25 or 26, 1937, reached a stage of 17.8 ft (5.43 m).

REMARKS.--Records good. Flow regulated by Berlin Lake, 25 mi (40 km) upstream, beginning in 1942, by Milton Reservoir, 17 mi (27 km) upstream, and by Michael J. Kirwan Reservoir, 20 mi (32 km) upstream on West Branch, beginning in 1966 (see stations 03090000, 03091000 and 03092450). Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Seven discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,330	299	1,110	1,320	456	400	1,730	414	1,040	283	269	356
2	1,400	354	1,090	1,290	867	640	2,780	368	900	276	262	332
3	921	483	1,090	1,240	1,500	883	2,350	594	541	276	283	314
4	729	509	1,100	1,730	1,110	1,030	1,800	812	1,420	272	283	311
5	666	426	1,150	1,930	667	1,050	2,860	811	1,260	276	279	328
6	420	383	1,210	1,400	435	1,400	2,250	788	940	272	272	353
7	389	437	1,460	1,170	476	1,200	1,690	763	805	279	268	349
8	379	669	1,000	1,100	533	874	1,590	763	670	283	265	349
9	366	1,120	807	1,000	475	712	1,650	1,110	504	283	265	346
10	358	1,030	835	850	358	670	1,890	1,430	426	286	274	342
11	354	893	742	600	290	736	2,100	1,680	398	293	277	342
12	361	854	671	500	244	847	1,960	1,520	390	286	290	339
13	354	830	1,230	430	230	830	1,770	1,230	394	283	282	335
14	319	1,510	1,430	400	233	911	1,640	1,120	390	286	289	339
15	321	2,160	1,170	400	374	3,340	1,570	1,060	325	332	319	342
16	319	1,360	1,180	400	439	3,020	1,520	1,040	394	314	350	346
17	315	1,320	1,020	380	364	1,560	1,350	970	490	307	317	342
18	292	1,250	1,000	371	299	1,530	1,250	878	760	297	315	339
19	276	1,190	941	378	256	1,470	1,180	618	639	293	312	339
20	273	1,280	1,110	404	246	1,650	1,080	668	356	307	312	339
21	276	1,350	1,550	356	258	1,830	1,020	885	300	462	434	339
22	279	1,260	1,700	389	271	1,910	966	682	304	418	484	342
23	287	1,200	1,730	510	280	1,900	939	674	286	454	427	360
24	290	1,170	1,500	562	273	2,130	911	1,050	311	332	415	349
25	296	1,140	1,280	532	264	2,190	555	1,330	325	339	404	342
26	288	1,160	1,210	499	271	2,460	314	1,200	304	446	399	279
27	283	1,240	1,260	485	289	2,290	309	1,080	286	478	394	262
28	283	1,230	1,410	572	301	1,900	1,050	1,080	286	422	382	269
29	292	1,190	1,360	759	------	1,640	1,170	1,100	314	321	378	374
30	297	1,140	1,310	629	------	1,750	633	1,040	297	283	353	482
31	295	------	1,300	501	------	1,900	------	1,040	------	262	356	------
TOTAL	13,308	30,437	36,956	23,087	12,059	46,653	43,877	29,798	16,055	10,001	10,209	10,180
MEAN	429	1,015	1,192	745	431	1,505	1,463	961	535	323	329	339
MAX	1,400	2,160	1,730	1,930	1,500	3,340	2,860	1,680	1,420	478	484	482
MIN	273	299	671	356	230	400	309	368	286	262	262	262

CAL YR 1972 TOTAL 267,128 MEAN 730 MAX 5,810 MIN 140
WTR YR 1973 TOTAL 282,620 MEAN 774 MAX 3,340 MIN 230

03095500 Mosquito Creek below Mosquito Creek Dam, near Cortland, Ohio

LOCATION.--Lat 41°17'59", long 80°45'31", in T.5 N., R.3 W., Trumbull County, on right bank 100 ft (30 m) downstream from Mosquito Creek Dam, 0.8 mi (1.3 km) upstream from Confusion Run, and 2.5 mi (4.0 km) southwest of Cortland.

DRAINAGE AREA.--97.5 mi^2 (253 km^2).

PERIOD OF RECORD.--May 1926 to September 1929 (published as "near Cortland"), May 1943 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 873.98 ft (266.389 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 23, 1943, nonrecording gage, and Aug. 23, 1943, to Feb. 14, 1951, water-stage recorder, at site 900 ft (274 m) downstream at datum 6.63 ft (2.021 m) lower.

AVERAGE DISCHARGE.--33 years, 86.2 ft^3/s (2.441 m^3/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 682 ft^3/s (19.3 m^3/s) Apr. 6; maximum gage height, 3.75 ft (1.143 m) Mar. 21, 22, Apr. 6; minimum discharge, 0.31 ft^3/s (0.009 m^3/s) May 16, gage height, 0.61 ft (0.186 m).

Period of record: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Jan. 19, 1929, gage height, 11.5 ft (3.51 m), from floodmark, site and datum then in use; no flow at times.

REMARKS.--Records good. Flow completely regulated by Mosquito Creek Lake beginning 1943 (see station 03095000). Diversion at lake outlet for municipal supply of city of Warren since May 1954; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Five discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	47	180	180	19	15	90	96	187	47	131	83
2	47	47	179	180	19	15	90	95	188	60	131	83
3	47	47	179	180	19	15	253	95	188	76	129	83
4	47	47	179	166	19	15	396	64	189	76	129	83
5	47	47	179	181	19	15	399	31	190	76	129	84
6	47	47	179	181	19	15	546	32	191	84	126	84
7	47	47	180	181	19	16	642	23	309	84	126	84
8	47	47	131	182	19	16	642	19	426	99	126	84
9	47	47	45	181	19	16	357	19	426	115	126	84
10	48	47	45	181	19	15	95	21	424	115	129	84
11	47	47	45	134	19	15	95	165	423	115	126	84
12	47	48	45	86	19	16	87	274	421	115	129	54
13	47	48	66	86	18	52	95	280	421	124	129	27
14	47	48	134	86	15	89	95	265	305	133	105	27
15	47	109	180	86	15	90	95	294	190	133	81	27
16	47	182	180	86	15	90	81	232	138	133	81	27
17	47	182	181	53	16	137	88	168	93	133	81	27
18	47	182	180	18	15	187	88	73	93	133	81	27
19	48	182	180	18	15	295	87	21	56	133	81	27
20	47	182	180	18	15	498	55	21	21	133	81	28
21	47	182	180	19	15	646	20	56	21	88	81	28
22	47	181	181	19	15	646	20	81	21	44	81	28
23	47	181	181	18	16	638	21	90	32	76	42	28
24	47	180	181	19	16	634	21	90	47	129	4.6	28
25	47	180	181	19	15	634	21	117	47	129	4.6	28
26	47	180	181	19	15	634	21	187	47	129	4.6	28
27	47	180	181	19	15	518	21	187	45	86	4.6	27
28	47	180	181	19	15	250	21	187	47	44	4.3	27
29	47	180	181	19	------	88	21	187	47	88	26	27
30	47	180	180	19	------	88	58	187	47	131	64	27
31	47	------	180	19	------	90	------	187	------	131	83	------
TOTAL	1,459	3,484	4,835	2,672	474	6,488	4,621	3,844	5,280	3,192	2,656.7	1,467
MEAN	47.1	116	156	86.2	16.9	209	154	124	176	103	85.7	48.9
MAX	48	182	181	182	19	646	642	294	426	133	131	84
MIN	47	47	45	18	15	15	20	19	21	44	4.3	27
(+)	22.6	22.0	21.4	21.9	21.9	22.2	21.8	22.3	25.2	24.9	24.4	23.7

CAL YR 1972 TOTAL 27,649.0 MEAN 75.5 MAX 610 MIN 13 (+) 22.8
WTR YR 1973 TOTAL 40,472.7 MEAN 111 MAX 646 MIN 4.3 (+) 22.9

+ Diversion in cubic feet per second; furnished by city of Warren.

03098000 Mahoning River at Youngstown, Ohio

LOCATION.--Lat 41°06'40", long 80°40'23", Mahoning County, on left bank 400 ft (122 m) upstream from Bridge Street bridge in Youngstown, and 0.8 mi (1.3 km) upstream from Mill Creek.

DRAINAGE AREA.--898 mi² (2,326 km²).

PERIOD OF RECORD.--October 1921 to current year. Records for May 1903 to July 1906, published in WSP 98, 128, 169, and 205, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 826.53 ft (251.926 m) above mean sea level, adjustment of 1912, levels by Mahoning Valley Sanitary District. Prior to Nov. 16, 1926, nonrecording gage at site 400 ft (122 m) downstream at same datum.

AVERAGE DISCHARGE.--52 years, 829 ft³/s (23.48 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,280 ft³/s (178 m³/s) Mar. 16; maximum gage height, 10.33 ft (3.149 m) Mar. 15 (backwater from Mill Creek); minimum discharge, 330 ft³/s (9.35 m³/s) Sept. 27.

Period of record: Maximum discharge, 17,600 ft³/s (498 m³/s) Jan. 25, 1937, gage height, 14.92 ft (4.548 m), from rating curve extended above 9,500 ft³/s (269 m³/s) on basis of velocity-area studies; maximum gage height, 18.62 ft (5.675 m) Jan. 22, 1959 (backwater from Mill Creek); minimum discharge, 28 ft³/s (0.79 m³/s) Aug. 14, 1930; minimum daily, 30 ft³/s (0.85 m³/s) Aug. 16, 1930.

Flood of Mar. 26, 1913 reached a stage of 26.5 ft (8.08 m), discharge, 42,500 ft³/s (1,200 m³/s), estimated by Corps of Engineers.

REMARKS.--Records good. Water diverted upstream from station for municipal supply for city of Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station by a private company for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 48 mi (77 km) upstream, beginning in 1942, by Milton Reservoir, 40 mi (64 km) upstream, by Michael J. Kirwan Reservoir, 43 mi (69 km) upstream, on West Branch, beginning in 1966, by Mosquito Creek Lake, 22 mi (35 km) upstream, beginning in 1943, by Meander Creek Reservoir, 11 mi (18 km) upstream, beginning in 1929, (see p. 28), and by reservoir on Squaw Creek, 5 mi (8 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 623: 1924(M). WSP 1907: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	414	1,550	1,840	727	587	2,700	895	1,690	402	456	504
2	1,860	685	1,520	2,120	1,410	944	4,870	734	1,490	378	492	486
3	1,290	790	1,510	2,090	2,260	1,360	4,150	832	1,160	402	468	456
4	986	762	1,560	2,750	1,980	1,760	3,550	1,060	3,020	390	474	450
5	888	629	1,680	3,020	1,190	1,960	5,170	1,080	2,400	390	468	462
6	678	531	2,200	2,610	776	2,460	4,410	1,000	1,840	390	468	559
7	531	580	2,490	1,980	790	2,150	2,920	965	1,560	396	462	498
8	510	1,030	1,990	1,640	916	1,520	2,810	958	1,300	402	456	492
9	492	1,400	1,520	1,470	860	1,150	2,920	1,570	1,130	408	456	480
10	474	1,460	1,370	1,410	636	1,020	3,180	2,220	1,040	438	468	480
11	402	1,210	1,180	1,130	492	1,080	3,160	2,730	986	480	492	480
12	486	1,110	1,200	734	408	1,260	2,760	2,590	1,150	438	504	474
13	474	1,110	2,100	636	372	1,220	2,400	2,330	1,360	432	486	438
14	444	2,600	2,280	615	408	1,740	2,150	2,140	993	450	498	426
15	426	2,910	2,050	594	769	5,850	2,010	1,980	874	615	566	426
16	426	2,470	2,340	594	881	5,750	1,950	1,930	1,150	498	590	420
17	426	1,800	1,920	587	685	3,190	1,820	1,810	972	486	591	414
18	420	1,760	1,590	538	559	2,730	1,780	1,440	1,250	468	565	420
19	390	1,680	1,540	538	462	2,640	1,650	979	1,180	456	517	414
20	384	1,860	2,040	559	420	2,790	1,470	1,020	685	510	622	414
21	384	1,900	2,720	510	438	3,180	1,310	1,320	498	1,150	720	414
22	384	1,800	2,920	615	468	3,360	1,220	1,150	414	699	741	456
23	420	1,680	2,720	762	486	3,260	1,200	1,110	390	531	622	510
24	414	1,600	2,420	846	480	3,440	1,150	1,720	486	552	531	438
25	408	1,560	1,980	762	456	3,570	874	2,890	468	510	474	420
26	408	1,680	1,850	727	456	4,000	538	2,350	432	622	468	390
27	396	1,760	1,900	713	462	3,940	601	1,880	414	853	462	336
28	390	1,770	1,990	951	492	3,180	1,970	1,870	456	671	450	366
29	426	1,690	1,920	1,330	------	2,760	2,320	1,870	498	468	444	1,010
30	408	1,590	1,830	1,080	------	2,560	1,390	1,760	438	444	456	790
31	414	------	1,800	825	------	2,680	------	1,760	------	456	545	------
TOTAL	17,969	43,821	59,680	36,576	20,739	79,091	70,403	49,943	31,724	15,785	16,012	14,323
MEAN	580	1,461	1,925	1,180	741	2,551	2,347	1,611	1,057	509	517	477
MAX	1,860	2,910	2,920	3,020	2,260	5,850	5,170	2,890	3,020	1,150	741	1,010
MIN	384	414	1,180	510	372	587	538	734	390	378	444	336

CAL YR 1972 TOTAL 409,949 MEAN 1,120 MAX 9,320 MIN 206
WTR YR 1973 TOTAL 456,066 MEAN 1,249 MAX 5,850 MIN 336

03099500 Mahoning River at Lowellville, Ohio

LOCATION.--Lat 41°02'12", long 80°32'11", in T.1 N., R.1 W., Mahoning County, on left bank 100 ft (30 m) upstream from First Street Bridge at Lowellville, 1 mi (2 km) upstream from Ohio-Pennsylvania State line, and 3 mi (5 km) downstream from Yellow Creek.

DRAINAGE AREA.--1,073 mi^2 (2,779 km^2).

PERIOD OF RECORD.--October 1942 to current year. Prior to August 1943 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 796.84 ft (242.877 m) above mean sea level, adjustment of 1912. Prior to Oct. 26, 1944, nonrecording gage at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--31 years, 1,026 ft^3/s (29.06 m^3/s).

EXTREMES.--Current year: Maximum discharge, 8,320 ft^3/s (236 m^3/s) Mar. 15, gage height, 8.51 ft (2.594 m); minimum, 438 ft^3/s (12.4 m^3/s) Sept. 28.

Period of record: Maximum discharge, 21,000 ft^3/s (595 m^3/s) Jan. 21, 1959, gage height, 14.43 ft (4.398 m); minimum, 125 ft^3/s (3.54 m^3/s) June 29, 1952.

Flood in March 1913 reached a stage of 17.8 ft (5.43 m).

REMARKS.--Records good. Flow regulated by 5 flood control reservoirs at points 21 mi (34 km) to 58 mi (93 km) upstream (see p. 28 and REMARKS for station 03098000), and by reservoirs on Squaw Creek, 15 mi (24 km) upstream, on Dry Run, 9 mi (14 km) upstream, and on Yellow Creek, 5 mi (8 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1555: 1946(M), 1952(M), 1955(M), 1956. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,630	517	1,700	1,970	943	816	3,020	1,190	1,810	510	573	615
2	1,920	872	1,680	2,110	2,080	1,190	5,060	997	1,580	492	601	587
3	1,390	1,060	1,650	2,230	2,820	1,670	4,290	1,050	1,260	510	566	559
4	1,070	970	1,750	2,990	2,340	2,120	3,900	1,240	3,070	498	573	552
5	961	832	1,910	3,100	1,570	2,370	5,550	1,240	2,600	498	552	636
6	808	699	2,490	2,670	1,170	2,740	4,780	1,140	2,130	492	559	744
7	636	699	2,780	2,100	1,050	2,420	3,160	1,090	1,810	492	552	615
8	594	1,230	2,340	1,800	1,180	1,850	3,150	1,110	1,500	498	552	580
9	580	1,540	2,000	1,700	1,130	1,460	3,190	1,740	1,270	510	552	573
10	573	1,650	1,790	1,600	898	1,280	3,540	2,580	1,150	538	580	573
11	566	1,370	1,530	1,400	706	1,330	3,460	3,420	1,100	608	664	573
12	601	1,220	1,530	1,100	594	1,540	3,060	2,970	1,100	538	685	566
13	580	1,220	2,420	850	552	1,480	2,670	2,510	1,500	531	601	545
14	559	2,880	2,490	776	643	2,260	2,390	2,250	1,110	538	664	517
15	510	3,190	2,380	768	1,150	7,850	2,240	2,110	997	744	1,110	517
16	524	2,760	2,750	768	1,220	6,400	2,170	2,030	1,370	608	1,200	504
17	510	2,040	2,230	760	943	4,160	2,120	1,970	1,210	587	1,050	498
18	517	1,940	1,870	744	800	3,330	2,330	1,590	1,480	573	1,030	510
19	498	1,850	1,800	744	685	3,100	1,990	1,170	1,375	559	816	498
20	486	2,100	2,340	768	650	3,240	1,800	1,390	880	656	880	504
21	486	2,110	2,970	706	678	3,550	1,630	1,610	678	1,690	1,190	510
22	486	1,990	3,150	856	706	3,660	1,540	1,390	573	916	988	1,180
23	531	1,830	2,900	1,090	720	3,510	1,480	1,340	531	678	800	1,380
24	510	1,760	2,550	1,150	699	3,610	1,360	1,890	629	678	699	573
25	498	1,740	2,170	997	671	3,760	1,090	2,930	608	657	615	524
26	498	1,870	2,050	943	678	4,420	760	2,420	573	744	601	480
27	498	1,940	2,070	925	678	4,080	1,080	1,990	531	952	587	450
28	492	1,940	2,110	1,190	720	3,360	3,020	2,170	594	824	573	456
29	538	1,860	2,040	1,640	------	2,900	2,810	2,050	650	608	559	1,480
30	510	1,760	1,970	1,350	------	2,760	1,760	1,920	559	538	566	1,110
31	510	------	1,940	1,070	------	2,820	------	1,910	------	566	664	------
TOTAL	21,070	49,439	67,350	42,865	28,674	91,036	80,400	56,407	36,223	19,831	22,202	19,409
MEAN	680	1,648	2,173	1,383	1,024	2,937	2,680	1,820	1,207	640	716	647
MAX	1,920	3,190	3,150	3,100	2,820	7,850	5,550	3,420	3,070	1,690	1,200	1,480
MIN	486	517	1,530	706	552	816	760	997	531	492	552	450

CAL YR 1972 TOTAL 485,771 MEAN 1,327 MAX 10,600 MIN 325
WTR YR 1973 TOTAL 534,906 MEAN 1,455 MAX 7,850 MIN 450

03102950 Pymatuning Creek at Kinsman, Ohio

LOCATION.--Lat 41°26'34", long 80°35'18", in T.7 N., R.1 W., Trumbull County, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi (1.3 km) downstream from Sugar Creek and 1.2 mi (1.9 km) upstream from Stratton Creek.

DRAINAGE AREA.--96.7 mi² (250 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 906.8 ft (276.39 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 110 ft³/s (3.115 m³/s), 15.45 in/yr (392.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 864 ft³/s (24.5 m³/s) Mar. 16, gage height, 10.47 ft (3.191 m); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 12.
Period of record: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Mar. 3, 1972; maximum gage height, 11.61 ft (3.539 m) Dec. 29, 1968; minimum discharge, 0.10 ft³/s (0.003 m³/s) Aug. 8, 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	7.5	135	124	111	52	226	251	196	37	8.3	4.3
2	44	11	111	123	176	110	405	183	135	33	7.8	4.0
3	60	31	103	111	319	215	413	118	101	32	6.4	3.8
4	65	43	102	223	347	352	326	87	425	32	5.8	3.7
5	47	65	135	310	333	452	609	75	645	32	5.4	3.6
6	23	79	229	263	272	571	561	65	567	32	5.1	3.8
7	7.6	72	424	233	226	496	458	57	460	28	4.8	4.9
8	3.0	77	386	185	200	404	332	53	332	22	4.5	4.0
9	2.2	95	368	122	175	293	239	155	229	16	3.9	3.2
10	1.9	98	316	90	130	206	197	332	156	11	3.5	2.5
11	1.9	102	248	54	100	153	195	552	103	7.2	3.2	2.3
12	1.6	96	194	40	80	173	169	546	74	5.5	3.2	2.2
13	2.3	79	234	32	60	175	136	435	77	6.3	3.5	2.0
14	2.2	203	269	27	51	176	106	311	66	6.4	3.8	4.0
15	2.4	423	246	25	69	672	83	208	45	9.0	6.3	5.4
16	2.4	430	210	24	84	836	69	137	42	11	7.8	4.2
17	2.5	405	170	27	92	711	62	104	46	8.2	8.6	2.8
18	2.8	333	140	33	79	602	60	89	46	6.1	7.8	2.9
19	7.8	250	121	44	63	513	60	77	47	6.1	6.1	2.9
20	5.9	202	129	58	55	483	60	135	43	6.1	6.7	2.5
21	3.7	184	207	73	52	430	57	302	42	12	34	2.4
22	2.8	163	299	83	53	354	52	332	38	15	33	2.8
23	3.4	152	344	131	55	295	47	364	40	9.5	38	3.2
24	4.8	134	333	163	55	304	42	376	40	8.0	35	3.2
25	6.0	114	303	165	55	336	38	428	41	7.1	24	3.4
26	5.9	121	256	136	51	458	34	330	38	11	13	2.8
27	5.9	161	223	111	45	445	35	314	34	41	6.5	2.5
28	6.0	170	187	119	45	350	172	262	34	36	5.3	4.5
29	5.9	175	152	170	------	275	290	220	39	23	4.6	16
30	5.9	162	125	150	------	241	281	176	39	14	4.3	26
31	6.6	------	114	130	------	243	------	214	------	9.7	4.6	------
TOTAL	376.4	4,637.5	6,813	3,579	3,433	11,376	5,814	7,288	4,220	533.2	314.8	135.8
MEAN	12.1	155	220	115	123	367	194	235	141	17.2	10.2	4.53
MAX	65	430	424	310	347	836	609	552	645	41	38	26
MIN	1.6	7.5	102	24	45	52	34	53	34	5.5	3.2	2.0
CFSM	.13	1.60	2.28	1.19	1.27	3.80	2.01	2.43	1.46	.18	.11	.05
IN.	.14	1.78	2.62	1.38	1.32	4.38	2.24	2.80	1.62	.21	.12	.05

CAL YR 1972 TOTAL 50,178.56 MEAN 137 MAX 1,490 MIN .13 CFSM 1.42 IN 19.30
WTR YR 1973 TOTAL 48,520.70 MEAN 133 MAX 836 MIN 1.6 CFSM 1.38 IN 18.67

PEAK DISCHARGE (BASE, 700 FT³/S).--Mar. 16 (0800) 864 FT³/S (10.47 ft).

Reservoirs in Beaver River basin

03090000 BERLIN LAKE.--Lat 41°02'46", long 81°00'10", in T.1 N., R.6 W., Portage County, at dam on Mahoning River, 3.2 mi (5.1 km) northwest of Berlin Center. Drainage area, 248 mi^2 (642 km^2). Period of record, December 1942 to current year. Prior to October 1971 published as Berlin Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 74,170 acre-ft (91.5 hm^3) Mar. 18, elevation, 1,020.61 ft (313.520 m); minimum, 26,300 acre-ft (32.4 hm^3) Dec. 4, elevation, 1,001.86 ft (305.367 m). Extremes for period of record: Maximum contents, 91,150 acre-ft (112 hm^3) July 9, 1943, elevation, 1,232.0 ft (375.51 m); minimum, 1,540 acre-ft (1.90 hm^3) Jan. 10, 1944, elevation, 978.82 ft (298.344 m).

Lake is formed by earthfill dam with concrete spillway; storage began in December 1942. Usable capacity 91,150 acre-ft (112 hm^3) between elevations 956.5 ft (291.54 m) (invert of lowest outlet) and 1,032 ft (315 m) (top of taintor gates on controlled section) of which 1,800 acre-ft (2.22 hm^3) is in the conservation pool, elevation, 980.0 ft (298.70 m). No dead storage. Flow is normally controlled by sluiceways through dam but additional releases can be made through gates on controlled section of spillway. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown. Gage-heights and capacity curve furnished by Corps of Engineers.

03091000 MILTON RESERVOIR.--Lat 41°07'38", long 80°58'40", in T.2 N., R.5 W., Mahoning County, at dam on Mahoning River, 0.8 mi (1.3 km) southwest of Pricetown. Drainage area, 273 mi^2 (707 km^2). Period of record, December 1923 to current year. Month-end contents for some periods published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level (levels by city of Youngstown). Prior to Oct. 7, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 21,810 acre-ft (26.9 hm^3) Oct. 1, elevation, 947.01 ft (288.648 m); minimum, 2,480 acre-ft (3.06 hm^3) Feb. 6, elevation, 927.62 ft (282.739 m). Extremes for period of record: Maximum contents, 35,020 acre-ft (43.2 hm^3) June 29, 1924, elevation, 953.8 ft (290.72 m), of which 5,870 acre-ft (7.24 hm^3) was in uncontrolled storage; minimum, 1,220 acre-ft (1.50 hm^3) Jan. 23, 1954, elevation, 924.27 ft (281.717 m), from graph based on gage readings.

Reservoir is formed by earthfill dam with concrete spillway; storage began in 1916. Usable capacity 29,150 acre-ft (35.9 hm^3) between elevations 906.0 ft (276.15 m) (bottom of gates) and 951.0 ft (289.86 m) (top of gates). No dead storage. Flow is regulated by two 16-inch and four 36-inch gates on spillway. Reservoir is used to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown. Capacity table computed from base data furnished by city of Youngstown, Division of Water.

03092450 MICHAEL J. KIRWAN RESERVOIR.--Lat 41°09'24", long 81°04'47", in T.3 N., R.6 W., Portage County, at dam on West Branch Mahoning River, 0.5 mi (0.8 km) southwest of Wayland. Drainage area, 80.5 mi^2 (208 km^2). Period of record, December 1966 to current year. Prior to October 1971 published as West Branch Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 60,350 acre-ft (74.4 hm^3) Apr. 6, elevation, 986.87 ft (300.798 m); minimum, 44,140 acre-ft (54.4 hm^3) Jan. 18, elevation, 980.45 ft (298.841 m). Extremes for period of record: Maximum contents, 66,940 acre-ft (82.5 hm^3) Apr. 18, 1972, elevation, 989.19 ft (301.505 m); minimum, 5,370 acre-ft (6.62 hm^3) Jan. 5, 1967, elevation, 953.50 ft (290.627 m).

Reservoir is formed by earthfill dam with concrete spillway; storage began in December 1966. Usable capacity 78,660 acre-ft (97.0 hm^3) between elevations 936.8 ft (285.54 m) (lowest outlet) and 993.0 ft (302.67 m) (crest of spillway) of which 3,740 acre-ft (4.61 hm^3) is in conservation pool. Dead storage below elevation 936.8 ft (285.54 m), 85 acre-ft (105,000 m^3). Figures given herein represent usable contents. Flow is controlled by gages in concrete conduits in dam. Reservoir is used for flood control and to augment flow of Mahoning River during periods of low flow. Gage-heights and capacity curve furnished by Corps of Engineers.

03095000 MOSQUITO CREEK LAKE.--Lat 41°17'58", long 80°45'31", in T.5 N., R.3 W., Trumbull County, at dam on Mosquito Creek, 3.0 mi (4.8 km) southwest of Cortland. Drainage area, 97.5 mi^2 (253 km^2). Period of record, October 1943 to current year. Prior to October 1971 published as Mosquito Creek Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 88,060 acre-ft (109 hm^3) June 6, 7, elevation, 902.35 ft (275.036 m); minimum, 58,380 acre-ft (72.0 hm^3) Sept. 28, elevation, 898.35 ft (273.817 m). Extremes for period of record: Maximum contents 99,100 acre-ft (122 hm^3) June 3, 1947, elevation, 903.65 ft (275.432 m); minimum, 8,600 acre-ft (10.6 hm^3) Nov. 16, 1944, elevation, 88[illegible].97 ft (270.348 m).

Lake is formed by earthfill dam. A natural wasteway, elevation, 903.5 ft (275.39 m), discharges into the Grand River basin; storage began in October 1943. Usable capacity 102,200 acre-ft (126 hm^3) between elevations 881.0 ft (268.53 m) (lowest outlet), and 904.00 ft (275.539 m), (lake-full level). Dead storage below 881.0 ft (268.53 m), 2,000 acre-ft (2.47 hm^3). Figures given herein represent usable contents. Flow is controlled by gates in concrete conduits through dam. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water is used for industrial purposes in vicinity of Warren and Youngstown; and for municipal supply of city of Warren. Gage-heights and capacity curve furnished by Corps of Engineers.

03097000 MEANDER CREEK RESERVOIR.--Lat 41°09'12", long 80°46'45", in T.3 N., R.3 W., Trumbull County, on right side of spillway near center of dam on Meander Creek, 0.8 mi (1.3 km) northwest of Mineral Ridge. Drainage area, 83.9 mi^2 (217 km^2). Period of record, November 1929 to current year. Month-end contents for some periods published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level (levels by Mahoning Valley Sanitary District). Extremes for current year: Maximum contents, 37,700 acre-ft (46.5 hm^3) Mar. 16, elevation, 907.50 ft (276.606 m); minimum, 23,400 acre-ft (28.9 hm^3) Sept. 30, elevation, 899.95 ft (274.305 m). Extremes for period of record: Maximum contents, 41,800 acre-ft (51.5 hm^3) Jan. 21, 1959, elevation, 909.25 ft (277.139 m); minimum, 9,370 acre-ft (11.6 hm^3) Feb. 28, 1954, elevation, 888.78 ft (270.900 m).

Reservoir is formed by earthfill dam with concrete spillway; storage began in 1929. Usable capacity at spillway level, elevation, 905 ft (276 m), 32,410 acre-ft (40.0 hm^3). No dead storage. Figures given herein represent usable contents. Water is used for municipal supply of cities of Niles and Youngstown. Gage-heights furnished by Mahoning Valley Sanitary District. Capacity table computed from base data furnished by Mahoning Valley Sanitary District.

Reservoirs in Beaver River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03090000 Berlin Lake			03091000 Milton Reservoir		
Sept. 30	1,015.39	32,870	-	947.01	21,810	-
Oct. 31	1,012.00	26,530	-6,340	942.85	15,740	-6,070
Nov. 30	1,012.60	27,580	+1,050	942.76	15,620	-120
Dec. 31	1,017.98	38,570	+10,990	940.23	12,530	-3,090
CAL YR 1972	-	-	+12,190	-	-	-3,630
Jan. 31	1,018.51	39,860	+1,290	929.90	3,630	-8,900
Feb. 28	1,023.96	55,700	+15,840	928.56	2,940	-690
Mar. 31	1,024.85	58,840	+3,140	944.22	17,570	+14,630
Apr. 30	1,026.90	66,750	+7,910	934.09	6,480	-11,090
May 31	1,026.17	63,820	-2,930	937.17	9,250	+2,770
June 30	1,025.69	61,970	-1,850	939.50	11,700	+2,450
July 31	1,023.52	54,230	-7,740	941.84	14,460	+2,760
Aug. 31	1,020.92	46,210	-8,020	942.22	14,930	+470
Sept. 30	1,016.19	34,550	-11,660	942.07	14,740	-190
WTR YR 1973	-	-	+1,680	-	-	-7,070
	03092450 Michael J. Kirwan Reservoir			03095000 Mosquito Creek Lake		
Sept. 30	983.22	50,780	-	899.92	69,210	-
Oct. 31	982.09	48,000	-2,780	899.29	64,760	-4,450
Nov. 30	982.08	47,980	-20	899.52	66,390	+1,630
Dec. 31	981.94	47,640	-340	899.78	68,220	+1,830
CAL YR 1972	-	-	+6,700	-	-	+7,910
Jan. 31	981.12	45,690	-1,950	899.78	68,220	0
Feb. 28	982.94	50,080	+4,390	900.44	73,070	+4,850
Mar. 31	985.35	56,260	+6,180	901.50	81,200	+8,130
Apr. 30	986.11	58,280	+2,020	901.76	83,260	+2,060
May 31	986.21	58,550	+270	901.94	84,680	+1,420
June 30	985.35	56,260	-2,290	901.41	80,490	-4,190
July 31	984.19	53,230	-3,030	900.24	71,580	-8,910
Aug. 31	983.35	51,110	-2,120	899.15	63,770	-7,810
Sept. 30	981.85	47,430	-3,680	898.40	58,710	-5,060
WTR YR 1973	-	-	-3,350	-	-	-10,500
	03097000 Meander Creek Reservoir					
Sept. 30	903.10	28,790	-			
Oct. 31	901.35	25,700	-3,090			
Nov. 30	904.16	30,780	+5,080			
Dec. 31	906.46	35,420	+4,640			
CAL YR 1972	-	-	+11,620			
Jan. 31	905.54	33,500	-1,920			
Feb. 28	906.22	34,900	+1,400			
Mar. 31	906.65	35,830	+930			
Apr. 30	906.72	35,980	+150			
May 31	906.55	35,610	-370			
June 30	905.21	32,830	-2,780			
July 31	903.50	29,540	-3,290			
Aug. 31	901.90	26,650	-2,890			
Sept. 30	899.95	23,400	-3,250			
WTR YR 1973	-	-	-5,390			

03109500 Little Beaver Creek near East Liverpool, Ohio

LOCATION.--Lat 40°40'33", long 80°32'27", Columbiana County, on right bank at downstream side of Grimms Bridge, 1.5 mi (2.4 km) upstream from Island Run, 4 mi (6 km) upstream from mouth, and 4 mi (6 km) northeast of East Liverpool.

DRAINAGE AREA.--496 mi^2 (1,285 km^2).

PERIOD OF RECORD.--May 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 702.77 ft (214.204 m) above mean sea level, adjustment of 1912. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--58 years, 506 ft^3/s (14.33 m^3/s), 13.86 in/yr (352.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,970 ft^3/s (226 m^3/s) Mar. 15, gage height, 10.54 ft (3.213 m); minimum, 56 ft^3/s (1.59 m^3/s) Sept. 20, 22.

Period of record: Maximum discharge, 25,000 ft^3/s (708 m^3/s) July 19, 1941, gage height, 17.4 ft (5.30 m), from rating curve extended above 16,000 ft^3/s (453 m^3/s) on basis of slope-area measurement of peak flow; minimum, 12 ft^3/s (0.34 m^3/s) several days in 1918, 1930, 1932, 1936.

Maximum stage observed, about 20 ft (6 m).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1937(M). WSP 1305: 1916-18(M), 1921-22(M), 1924-30(M), 1933(M), 1936(M). WSP 1907: 1950(P), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	161	645	645	593	486	908	1,250	836	173	126	108
2	266	537	630	593	1,710	553	890	1,020	690	159	123	102
3	208	1,610	655	539	2,530	715	866	1,150	607	146	114	91
4	178	986	685	1,510	1,670	1,130	1,010	1,020	755	142	100	85
5	161	635	1,610	1,360	1,190	1,250	1,850	854	842	220	90	90
6	168	482	2,500	980	986	1,710	1,520	720	806	188	85	126
7	203	422	2,840	730	1,000	1,360	1,100	640	680	146	78	110
8	180	1,360	2,060	589	1,010	1,140	1,240	598	539	130	76	96
9	159	1,320	2,230	482	908	926	1,340	794	450	121	71	87
10	140	932	1,960	460	710	806	1,570	1,180	393	117	69	81
11	130	745	1,570	420	620	750	1,570	2,750	354	132	76	71
12	157	625	1,220	360	500	735	1,320	2,090	323	121	130	65
13	210	544	1,370	340	480	695	1,080	1,520	368	110	117	62
14	198	2,230	1,300	340	550	796	926	1,110	403	99	102	64
15	170	2,530	1,230	340	980	6,200	812	926	299	99	255	64
16	155	1,650	2,050	340	986	4,130	725	824	309	97	593	64
17	146	1,080	1,450	360	665	3,380	700	800	418	91	611	61
18	140	842	1,180	400	650	2,850	1,840	755	950	85	375	60
19	148	730	1,030	460	600	2,120	1,530	665	800	81	319	60
20	140	1,220	1,320	553	593	1,870	1,140	974	486	79	245	59
21	136	1,140	1,500	396	593	1,760	920	1,080	358	243	526	60
22	130	914	1,510	562	562	1,460	818	800	299	548	526	64
23	136	770	1,250	836	544	1,230	854	824	266	281	319	150
24	155	675	980	710	506	1,080	890	1,740	235	183	223	152
25	155	616	860	548	482	1,030	730	2,010	235	150	178	104
26	146	818	806	518	478	1,650	685	1,490	225	142	152	82
27	134	896	842	544	462	1,380	1,150	1,150	195	312	138	73
28	130	788	725	755	466	1,030	3,410	1,250	190	312	124	70
29	138	715	650	908	------	956	2,570	1,180	233	210	115	110
30	152	650	611	645	------	1,030	1,610	1,030	200	152	107	225
31	155	------	611	600	------	1,020	------	1,000	------	126	99	------
TOTAL	5,150	28,623	39,880	18,823	23,024	47,228	37,574	35,194	13,744	5,195	6,262	2,696
MEAN	166	954	1,286	607	822	1,523	1,252	1,135	458	168	202	89.9
MAX	326	2,530	2,840	1,510	2,530	6,200	3,410	2,750	950	548	611	225
MIN	130	161	611	340	462	486	685	598	190	79	69	59
CFSM	.33	1.92	2.59	1.22	1.66	3.07	2.52	2.29	.92	.34	.41	.18
IN.	.39	2.15	2.99	1.41	1.73	3.54	2.82	2.64	1.03	.39	.47	.20

CAL YR 1972 TOTAL 264,075 MEAN 722 MAX 4,560 MIN 60 CFSM 1.46 IN 19.81
WTR YR 1973 TOTAL 263,393 MEAN 722 MAX 6,200 MIN 59 CFSM 1.46 IN 19.75

PEAK DISCHARGE (BASE, 5,000 FT^3/S).--Mar. 15 (0600) 7,970 ft^3/s (10.54 ft).

03110000 Yellow Creek near Hammondsville, Ohio

LOCATION.--Lat 40°32'16", long 80°43'31", in sec.29, T.8 N., R.2 W., Jefferson County, on right bank 1,000 ft (305 m) upstream from Lowery Run, 0.9 mi (1.4 km) upstream from Brush Creek, and 1.6 mi (2.6 km) southwest of Hammondsville.

DRAINAGE AREA.--147 mi^2 (381 km^2).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 692.10 ft (210.952 m) above mean sea level, Ohio State Highway Department bench mark.

AVERAGE DISCHARGE.--33 years, 154 ft^3/s (4.361 m^3/s), 14.23 in/yr (361.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,960 ft^3/s (55.5 m^3/s) Mar. 15, gage height, 5.97 ft (1.820 m); minimum, 6.1 ft^3/s (0.23 m^3/s) Sept. 15, 16, 22.

Period of record: Maximum discharge, 9,580 ft^3/s (271 m^3/s) Jan. 27, 1952, gage height, 12.17 ft (3.709 m); minimum, 0.8 ft^3/s (0.023 m^3/s) Sept. 24 to Oct. 1, Oct. 7, 8, 1963.

The highest stage observed is reported to have occurred in 1912.

REMARKS.--Records good except period of no gage-height record which is poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	27	160	140	190	141	230	392	317	47	30	14
2	40	145	150	130	619	138	222	322	269	42	39	12
3	31	423	160	120	815	158	208	424	242	36	29	10
4	26	268	170	450	538	210	260	346	438	31	22	10
5	23	189	450	400	396	281	420	284	398	32	18	10
6	23	122	600	330	322	424	360	245	322	34	16	15
7	23	88	650	250	315	364	325	224	267	29	14	15
8	23	470	480	200	308	322	372	222	213	24	12	13
9	20	381	510	170	284	266	376	275	177	23	12	10
10	17	249	420	150	239	239	476	301	151	24	14	10
11	15	200	340	130	200	219	472	597	130	53	16	10
12	21	155	280	120	170	213	428	484	116	35	18	9.3
13	45	126	320	110	160	188	364	364	113	27	32	8.5
14	34	470	300	110	170	188	311	297	96	24	35	8.5
15	28	463	280	100	350	1,310	272	257	84	21	127	8.1
16	24	288	500	110	350	710	248	227	86	23	68	9.3
17	23	221	330	110	248	993	236	224	178	20	40	8.9
18	22	175	250	120	230	850	278	199	210	16	34	9.3
19	22	148	280	130	210	606	245	174	137	15	30	8.9
20	24	234	330	170	190	500	222	216	103	15	31	9.7
21	21	223	350	130	180	428	208	208	96	31	138	9.3
22	20	196	330	170	170	364	194	174	84	58	80	9.3
23	22	174	270	250	160	315	210	169	82	36	53	61
24	30	151	220	210	150	281	242	339	71	29	40	44
25	31	136	200	180	146	272	210	815	122	30	29	24
26	27	201	180	170	151	343	210	534	86	51	24	15
27	25	217	190	186	143	290	353	388	62	51	20	14
28	24	209	160	248	141	251	1,170	425	58	42	19	12
29	24	199	140	287	------	239	745	344	78	31	16	16
30	26	180	130	224	------	251	512	322	58	24	15	68
31	25	------	130	200	------	236	------	382	------	22	14	------
TOTAL	821	6,728	9,260	5,805	7,545	11,590	10,379	10,174	4,844	976	1,085	482.1
MEAN	26.5	224	299	187	269	374	346	328	161	31.5	35.0	16.1
MAX	62	470	650	450	815	1,310	1,170	815	438	58	138	68
MIN	15	27	130	100	141	138	194	169	58	15	12	8.1
CFSM	.18	1.52	2.03	1.27	1.83	2.54	2.35	2.23	1.10	.21	.24	.11
IN.	.21	1.70	2.34	1.47	1.91	2.93	2.63	2.57	1.23	.25	.27	.12

CAL YR 1972 TOTAL 16,809.0 MEAN 45.9 MAX 9,300,319 MIN 5.6 CFSM .31 IN 4.25
WTR YR 1973 TOTAL 69,689.1 MEAN 191 MAX 1,310 MIN 8.1 CFSM 1.30 IN 17.64

PEAK DISCHARGE (BASE, 2,000 FT^3/S).--No peaks above base. NOTE.--No gage-height record Nov. 29 to Jan. 26.

03111500 Short Creek near Dillonvale, Ohio

LOCATION.--Lat 40°11'36", long 80°44'04", in sec.30, T.4 N., R.2 W., Jefferson County, on right bank at downstream side of bridge on State Highway 150, 2.1 mi (3.4 km) east of Dillonvale, 2.2 mi (3.5 km) downstream from Jug Run, and 2.9 mi (4.7 km) upstream from Little Short Creek.

DRAINAGE AREA.--123 mi² (319 km²)

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 676.1 ft (206.08 m) above mean sea level, State of Ohio bench mark. Prior to Oct. 21, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 120 ft³/s (3.398 m³/s), 13.25 in/yr (336.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,140 ft³/s (60.6 m³/s) May 24, gage height, 6.21 ft (1.893 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 25-27.

Period of record: Maximum discharge, 6,500 ft³/s (184 m³/s) Mar. 6, 1945; maximum gage height, 10.15 ft (3.094 m) Mar. 5, 1963, from graph based on gage readings; minimum daily, 2.8 ft³/s (0.079 m³/s) Sept. 21, 27, 1947.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1003: 1942-43. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	50	81	113	127	110	185	336	241	81	81	25
2	36	94	80	100	295	120	177	300	215	78	55	25
3	32	119	84	95	340	152	168	367	207	76	46	25
4	28	68	78	330	265	178	209	324	207	80	42	24
5	28	57	97	201	229	208	254	278	206	73	39	23
6	30	50	141	155	209	254	214	248	209	66	37	21
7	30	56	166	139	219	215	195	232	177	64	43	21
8	29	225	201	123	227	200	294	220	157	63	36	20
9	27	132	430	106	190	177	305	350	145	62	36	19
10	24	92	250	95	160	169	330	700	138	76	39	18
11	24	85	178	90	140	163	295	500	128	83	38	18
12	33	73	150	85	130	165	266	343	123	60	44	18
13	40	64	159	80	120	156	245	281	123	57	40	17
14	32	132	139	75	120	153	222	245	112	56	48	18
15	32	116	144	75	262	568	209	221	104	60	57	19
16	31	84	207	80	224	361	198	205	109	56	44	17
17	31	71	151	85	177	654	191	203	155	51	40	16
18	32	63	146	91	160	493	191	188	415	48	39	18
19	38	62	127	115	150	376	184	176	184	46	39	19
20	33	106	180	115	140	328	174	240	144	49	43	17
21	31	90	176	91	140	293	166	205	138	85	123	17
22	31	78	201	153	130	257	160	173	127	76	58	16
23	37	71	178	168	130	230	205	190	116	59	44	17
24	49	64	155	134	120	213	273	907	107	51	37	17
25	40	60	141	113	110	207	226	844	103	56	35	15
26	38	90	136	110	110	249	228	471	98	62	34	15
27	37	98	141	143	110	265	543	361	92	57	33	14
28	37	97	126	170	110	217	906	409	95	48	32	15
29	47	94	115	164	------	203	499	323	97	49	30	24
30	50	84	112	131	------	204	399	300	87	46	28	36
31	45	------	115	120	------	192	------	287	------	43	26	------
TOTAL	1,086	2,625	4,785	3,845	4,844	7,730	8,111	10,427	4,559	1,917	1,366	584
MEAN	35.0	87.5	154	124	173	249	270	336	152	61.8	44.1	19.5
MAX	54	225	430	330	340	654	906	907	415	85	123	36
MIN	24	50	78	75	110	110	160	173	87	43	26	14
CFSM	.28	.71	1.25	1.01	1.41	2.02	2.20	2.73	1.24	.50	.36	.16
IN.	.33	.79	1.45	1.16	1.47	2.34	2.45	3.15	1.38	.58	.41	.18

CAL YR 1972 TOTAL 46,640 MEAN 127 MAX 1,190 MIN 22 CFSM 1.03 IN 14.11
WTR YR 1973 TOTAL 51,879 MEAN 142 MAX 907 MIN 14 CFSM 1.15 IN 15.69

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	1300	4.32	1,260	5-24	2200	6.21	2,140
4-28	unknown	unknown	about2,100				

03114000 Captina Creek at Armstrongs Mills, Ohio

LOCATION.--Lat 39°54'31", long 80°55'27", in NE 1/4 sec.10, T.5 N., R.4 W., Belmont County, on left bank at downstream side of bridge on State Highway 148, 0.5 mi (0.8 km) east of Armstrongs Mills, and 0.7 mi (1.1 km) downstream from Anderson Run.

DRAINAGE AREA.--134 mi^2 (347 km^2).

PERIOD OF RECORD.--August 1926 to September 1935, October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 739.53 ft (225.409 m) above mean sea level. Aug. 20, 1926, to Sept. 30, 1935, nonrecording gage at same site, at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--24 years, 153 ft^3/s (4.333 m^3/s), 15.51 in/yr (394.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,870 ft^3/s (138 m^3/s) Dec. 8, gage height, 8.49 ft (2.588 m); no flow part of each day Aug. 12, 13, Sept. 28, 29.

Period of record: Maximum discharge, about 11,800 ft^3/s (334 m^3/s) Mar. 4, 1963; maximum gage height, 14.40 ft (4.389 m), present datum, Aug. 7, 1935; no flow at times during 1929-30, 1932, 1934, 1959, 1963-66, 1972, 1973.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	42	189	140	210	105	152	356	150	34	17	1.5
2	33	153	171	114	689	105	143	286	121	32	22	.60
3	23	280	156	125	652	151	138	366	104	29	16	.30
4	19	135	145	830	454	207	416	298	111	37	10	.70
5	16	90	159	392	338	231	382	242	352	47	8.3	1.4
6	14	65	480	277	294	248	266	199	268	32	6.1	1.0
7	15	55	392	198	315	220	498	171	166	26	3.9	.90
8	13	352	1,530	165	362	198	782	381	117	23	2.8	.80
9	11	324	1,780	150	322	166	621	654	92	20	2.8	.75
10	9.2	195	704	130	255	151	500	299	76	21	3.0	.70
11	6.8	162	415	120	222	138	400	569	64	34	2.1	1.6
12	12	125	356	110	190	172	636	300	57	24	.40	1.0
13	26	100	405	100	180	149	602	224	65	19	.69	.80
14	19	300	312	100	170	140	425	183	50	17	1.3	1.5
15	15	300	360	100	421	386	334	151	41	22	3.9	2.0
16	12	180	450	104	317	481	273	131	38	29	8.3	3.4
17	12	140	277	107	222	1,400	246	128	203	18	6.0	2.2
18	13	111	256	109	199	690	228	110	810	15	6.5	3.4
19	19	96	238	192	180	506	193	96	192	12	6.2	11
20	21	336	866	192	160	457	167	161	117	11	4.5	5.7
21	17	238	575	135	140	359	147	121	145	46	21	2.8
22	16	177	650	368	130	284	132	95	109	75	17	1.1
23	16	143	425	344	128	234	762	88	126	40	10	7.0
24	37	116	320	249	118	204	761	227	74	27	6.4	16
25	36	104	256	192	114	207	589	590	59	25	4.5	9.1
26	27	256	242	168	120	301	562	307	50	28	3.2	4.2
27	22	288	228	740	118	259	1,650	221	43	27	2.1	2.3
28	20	273	189	615	108	209	1,750	218	42	24	1.2	.60
29	20	242	156	440	------	188	746	168	55	19	.70	3.5
30	22	204	143	284	------	176	487	182	40	16	.55	111
31	20	------	138	240	------	160	------	214	------	15	.80	------
TOTAL	626.0	5,582	12,963	7,530	7,128	8,882	14,988	7,736	3,937	844	199.24	198.85
MEAN	20.2	186	418	243	255	287	500	250	131	27.2	6.43	6.63
MAX	64	352	1,780	830	689	1,400	1,750	654	810	75	22	111
MIN	6.8	42	138	100	108	105	132	88	38	11	.40	.30
CFSM	.15	1.39	3.12	1.81	1.90	2.14	3.73	1.87	.98	.20	.05	.05
IN.	.17	1.55	3.60	2.09	1.98	2.47	4.16	2.15	1.09	.23	.06	.06

CAL YR 1972 TOTAL 70,162.20 MEAN 192 MAX 1,780 MIN 0 CFSM 1.43 IN 19.48

WTR YR 1973 TOTAL 70,614.09 MEAN 193 MAX 1,780 MIN .30 CFSM 1.44 IN 19.60

PEAK DISCHARGE (BASE, 3,000 FT^3/S).--Dec. 8 (2000) 4,870 ft^3/s (8.49 ft).

03115400 Little Muskingum River at Bloomfield, Ohio

LOCATION.--Lat 39°33'47", long 81°12'14", in sec.22, T.3 N., R.6 W., Washington County, on left bank 400 ft (122 m) upstream from bridge on State Highway 260 at Bloomfield, 2.2 mi (3.5 km) downstream from Wilson Run.

DRAINAGE AREA.--210 mi^2 (544 km^2).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 645.99 ft (196.898 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 236 ft^3/s (6.684 m^3/s), 15.26 in/yr (387.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,040 ft^3/s (228 m^3/s) Dec. 9, gage height, 23.34 ft (7.114 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Sept. 3.

Period of record: Maximum discharge, 21,200 ft^3/s (600 m^3/s) Mar. 5, 1963, gage height, 28.08 ft (8.559 m), from rating curve extended above 8,000 ft^3/s (227 m^3/s) on basis of velocity-area study and flow over road computations; no flow Sept. 18, 26, 27, 1967.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1705: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	275	365	224	329	139	190	409	134	56	44	3.3
2	110	570	340	197	976	136	241	322	98	39	46	3.4
3	60	453	310	204	1,050	178	253	404	78	37	46	1.9
4	38	248	290	1,430	776	837	1,020	430	73	37	46	2.5
5	29	164	270	738	507	610	1,160	370	787	39	44	3.0
6	23	113	550	441	393	586	611	300	775	41	25	3.2
7	21	94	344	309	543	413	434	250	361	28	10	2.9
8	18	536	1,660	238	679	358	2,050	500	216	20	4.3	2.8
9	14	665	6,660	251	791	296	1,440	950	138	19	3.2	2.7
10	12	341	1,560	220	460	258	1,280	450	99	19	3.0	2.7
11	10	251	836	172	336	230	1,020	800	82	18	2.8	3.5
12	13	194	630	140	285	210	824	450	71	18	2.7	3.6
13	23	152	828	97	252	178	939	300	71	16	2.7	3.5
14	26	251	640	91	249	161	794	230	65	16	4.6	4.7
15	21	347	931	100	727	168	547	170	51	18	25	6.4
16	16	239	1,240	101	687	185	405	130	47	18	46	8.3
17	13	191	633	104	378	1,340	335	130	52	18	21	9.2
18	11	149	425	118	344	1,060	307	100	156	18	12	12
19	12	131	357	205	294	758	272	80	93	18	9.9	15
20	13	685	1,230	383	242	915	241	100	53	19	8.1	10
21	12	545	1,050	256	225	672	213	120	35	23	7.2	6.5
22	11	320	1,270	534	207	471	190	90	38	162	6.8	4.2
23	12	245	946	722	191	349	303	70	104	206	6.9	4.7
24	15	251	576	466	171	291	1,090	100	85	134	7.3	6.4
25	26	752	414	328	154	266	566	224	47	86	7.4	9.3
26	24	800	346	282	154	338	472	170	33	103	5.9	7.7
27	21	900	353	1,100	161	296	1,470	126	29	110	4.5	5.1
28	20	800	308	1,240	151	247	2,680	158	29	92	3.8	3.3
29	19	610	262	739	------	223	980	141	82	70	2.7	8.6
30	18	442	238	434	------	210	572	120	103	56	2.4	24
31	23	------	224	343	------	191	------	190	------	46	2.8	------
TOTAL	956	11,714	26,086	12,207	11,712	12,570	22,899	8,384	4,085	1,600	464.0	184.4
MEAN	30.8	390	841	394	418	405	763	270	136	51.6	15.0	6.15
MAX	272	900	6,660	1,430	1,050	1,340	2,680	950	787	206	46	24
MIN	10	94	224	91	151	136	190	70	29	16	2.4	1.9
CFSM	.15	1.86	4.00	1.88	1.99	1.93	3.63	1.29	.65	.25	.07	.03
IN.	.17	2.08	4.62	2.16	2.07	2.23	4.06	1.49	.72	.28	.08	.03

CAL YR 1972 TOTAL 119,706.5 MEAN 327 MAX 6,660 MIN 2.5 CFSM 1.56 IN 21.21
WTR YR 1973 TOTAL 112,861.4 MEAN 309 MAX 6,660 MIN 1.9 CFSM 1.47 IN 19.99

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-9	0900	23.34	8,040	4-28	0400	16.32	3,230
4-8	1900	16.09	3,140				

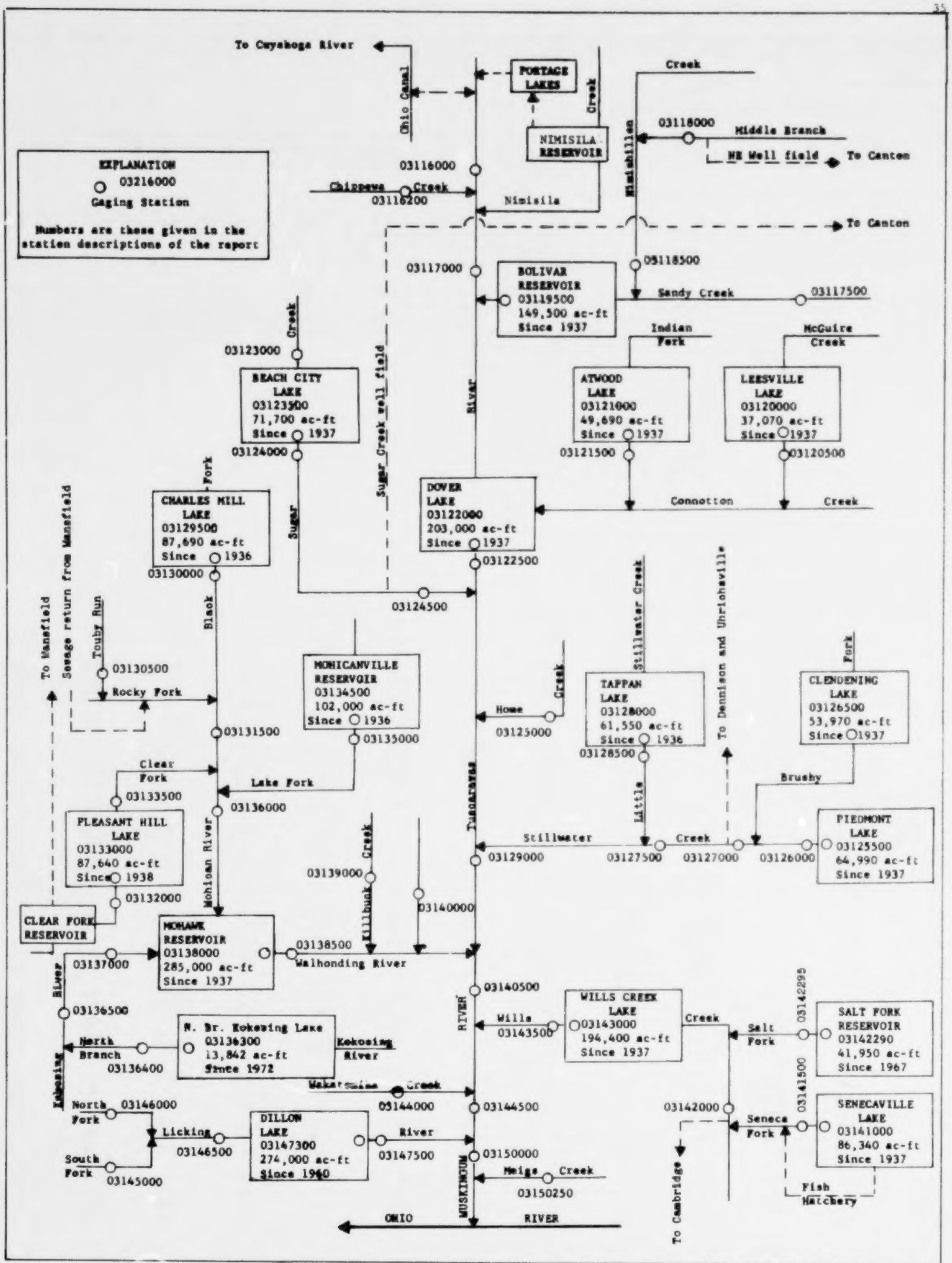
EXPLANATION
03216000
Gaging Station
Numbers are those given in the station descriptions of the report
To Cuyahoga River
Ohio Canal
PORTAGE LAKES
Creek
NIMISILA RESERVOIR
Creek
Nimishillen
03118000
Middle Branch
NE Well field
To Canton
03116000
Chippewa Creek
03116200
Nimisila
To Canton
03117000
BOLIVAR RESERVOIR
03119500
149,500 ac-ft
Since 1937
03118500
Sandy Creek
03117500
Indian Fork
McGuire Creek
Creek
03123000
BEACH CITY LAKE
03123500
71,700 ac-ft
Since 1937
03124000
Sugar Creek well field
River
ATWOOD LAKE
03121000
49,690 ac-ft
Since 1937
03121500
LEESVILLE LAKE
03120000
37,070 ac-ft
Since 1937
03120500
Fork
CHARLES MILL LAKE
03129500
87,690 ac-ft
Since 1936
03130000
Sugar
DOVER LAKE
03122000
203,000 ac-ft
Since 1937
03122500
Conotton Creek
Sewage return from Mansfield
To Mansfield
Touby Run
03130500
Black
03124500
Rocky Fork
MOHICANVILLE RESERVOIR
03134500
102,000 ac-ft
Since 1936
03135000
Home Creek
03125000
Stillwater Creek
TAPPAN LAKE
03128000
61,550 ac-ft
Since 1936
03128500
To Dennison and Uhrichsville
Fork
CLENDENING LAKE
03126500
53,970 ac-ft
Since 1937
03131500
Clear Fork
03133500
Lake Fork
03136000
Brushy
Tuscarawas
Little
PLEASANT HILL LAKE
03133000
87,640 ac-ft
Since 1938
03132000
Mohican River
Killbuck Creek
03139000
03140000
Stillwater Creek
03129000
03127500
03127000
03126000
PIEDMONT LAKE
03125500
64,990 ac-ft
Since 1937
CLEAR FORK RESERVOIR
MOHAWK RESERVOIR
03138000
285,000 ac-ft
Since 1937
03138500
Walhonding River
03137000
River
03136500
03140500
RIVER
WILLS CREEK LAKE
03143000
194,400 ac-ft
Since 1937
Wills
03143500
Creek
Salt Fork
03142295
SALT FORK RESERVOIR
03142290
41,950 ac-ft
Since 1967
N. Br. Kokosing Lake
03136300
13,842 ac-ft
Since 1972
North Branch
03136400
Kokosing River
Kokosing
Wakatomika Creek
03144000
03144500
03142000
03141500
SENECAVILLE LAKE
03141000
86,340 ac-ft
Since 1937
Seneca Fork
North Fork
03146000
Licking
03146500
DILLON LAKE
03147300
274,000 ac-ft
Since 1960
River
03147500
03150000
South Fork
03145000
Meigs Creek
03150250
MUSKINGUM
To Cambridge
Fish Hatchery
OHIO RIVER

Figure 4.--Schematic diagram showing diversions and storage in the Muskingum River basin in Ohio

03116000 Tuscarawas River at Clinton, Ohio

LOCATION.--Lat 40°55'40", long 81°37'58", in NW 1/4 sec.32, T.2 N., R.10 W., Summit County, on right bank 100 ft (30 m) downstream from highway bridge at Clinton, and 1 mi (2 km) upstream from Chippewa Creek.

DRAINAGE AREA.--174 mi² (451 km²).

PERIOD OF RECORD.--May 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 933.28 ft (284.464 m) above mean sea level, adjustment of 1912. Prior to Nov. 18, 1928, nonrecording gage at site 100 ft (30 m) upstream at datum 4.00 ft (1.219 m) higher. Nov. 18, 1928, to July 24, 1930, nonrecording gage at same site at present datum.

AVERAGE DISCHARGE.--44 years, (1929-73), 140 ft³/s (3.965 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 1,280 ft³/s (36.2 m³/s) Mar. 17; maximum gage height, 11.64 ft (3.548 m) Mar. 16 (backwater from Chippewa Creek); minimum discharge, 44 ft³/s (1.25 m³/s) Sept. 15.
Period of record: Maximum discharge, 2,700 ft³/s (76.5 m³/s) Aug. 8, 1935; maximum gage height, 17.00 ft (5.182 m) July 7, 1969 (backwater from Chippewa Creek); minimum discharge, 10 ft³/s (0.28 m³/s) Nov. 6, 1928.

REMARKS.--Records fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake 12 mi (19 km) upstream and 3 mi (5 km) south of Akron. Part of the diverted water flows through the Ohio Canal into the Cuyahoga River basin. Flow affected by industrial plants upstream from station and supplemented at times by diversion from Nimisila Reservoir, capacity, 6,500 acre-ft (8.01 hm³), since 1939. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	550	111	154	199	185	177	309	235	250	82	84	53
2	480	226	148	171	428	301	309	206	200	80	137	49
3	480	368	145	152	650	352	281	199	172	80	96	50
4	500	336	152	480	600	345	283	177	145	84	78	51
5	427	208	183	450	550	371	500	168	159	104	75	56
6	260	146	393	359	376	565	450	152	137	83	74	53
7	200	167	550	193	281	499	364	141	147	79	70	51
8	161	518	500	154	273	391	291	145	164	76	69	50
9	135	600	415	149	288	274	293	216	117	77	67	46
10	120	550	347	153	176	275	450	229	108	99	66	48
11	112	400	282	142	154	340	500	391	102	94	64	48
12	141	293	245	114	139	419	480	327	96	81	76	48
13	186	234	450	110	136	260	352	216	104	79	98	49
14	140	733	500	107	144	240	264	149	95	76	90	51
15	119	900	450	108	264	1,240	196	159	89	90	92	48
16	112	800	336	104	226	1,100	178	171	130	78	69	46
17	110	700	235	112	215	1,280	169	148	243	75	66	51
18	99	588	219	116	155	1,100	193	136	215	75	65	51
19	101	419	220	134	183	923	196	128	177	74	61	50
20	99	434	352	131	160	828	184	147	249	80	68	48
21	97	350	450	113	170	744	166	138	147	271	80	49
22	96	250	500	145	186	617	150	127	112	149	70	51
23	105	220	480	214	189	512	150	207	102	101	68	69
24	128	192	400	193	175	450	134	359	120	89	59	50
25	126	171	326	159	156	480	126	376	112	99	57	50
26	149	194	257	145	156	500	121	318	89	133	53	51
27	143	236	265	145	158	450	182	271	88	105	54	50
28	116	224	211	251	159	348	450	224	89	89	51	50
29	105	186	186	351	------	322	420	233	87	81	52	59
30	113	155	184	260	------	412	292	244	83	80	55	57
31	114	------	200	204	------	363	------	280	------	80	64	------
TOTAL	5,824	10,909	9,735	5,818	6,932	16,468	8,433	6,617	4,128	2,912	2,228	1,533
MEAN	188	364	314	188	248	531	281	213	138	93.9	71.9	51.1
MAX	550	900	550	480	650	1,280	500	391	250	271	137	69
MIN	96	111	145	104	136	177	121	127	83	74	51	46

CAL YR 1972 TOTAL 75,781 MEAN 207 MAX 962 MIN 62
WTR YR 1973 TOTAL 81,537 MEAN 223 MAX 1,280 MIN 46

03116200 Chippewa Creek at Easton, Ohio

LOCATION.--Lat 40°56'47", long 81°44'35", in SW 1/4 sec. 17, T.18 N., R.11 W., Wayne County, on left bank at downstream side of bridge on State Highway 585, 0.5 mi (0.8 km) southwest of Easton, and 1.5 mi (2.4 km) upstream from Red Run.

DRAINAGE AREA.--146 mi^2 (378 km^2).

PERIOD OF RECORD.--January 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 939.60 ft (286.390 m) above mean sea level. Prior to June 10, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--13 years, 121 ft^3/s (3.427 m^3/s), 11.26 in/yr (286.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) Mar. 16, gage height, 12.03 ft (3.667 m); minimum, 6.7 ft^3/s (0.19 m^3/s) Sept. 22.

Period of record: Maximum discharge, 12,500 ft^3/s (354 m^3/s) July 5, 1969, gage height, 16.02 ft (4.883 m); minimum, 2.8 ft^3/s (0.079 m^3/s) July 6, 1963.

Flood of Jan. 21, 1959 reached a stage of 14.17 ft (4.319 m), discharge, 10,100 ft^3/s (286 m^3/s), by contracted-opening measurement of peak flow.

REMARKS.--Records good. Low flow slightly regulated by industry at Rittman 2.5 mi (4.0 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,370	107	131	169	158	187	211	152	217	33	17	14
2	1,380	462	125	140	719	353	212	129	140	29	39	11
3	1,050	553	123	134	876	359	185	124	110	33	21	10
4	623	328	127	663	609	320	252	109	95	54	17	8.6
5	401	217	144	414	387	457	566	97	100	35	15	10
6	283	166	529	237	283	528	398	83	100	27	14	14
7	224	255	713	157	270	348	266	74	90	25	15	11
8	172	955	433	134	242	266	242	80	90	28	13	9.5
9	133	943	382	120	207	239	241	144	85	26	14	9.0
10	104	656	371	100	161	280	516	147	60	29	15	9.0
11	89	449	266	95	140	335	432	367	55	31	14	9.9
12	177	326	242	90	115	346	327	191	55	24	22	9.6
13	211	248	727	82	103	237	236	132	60	20	16	9.3
14	139	973	555	75	113	370	206	102	55	19	16	9.6
15	108	1,150	370	68	270	1,280	155	97	48	21	35	9.6
16	96	961	257	65	194	1,480	134	87	44	18	17	8.5
17	89	674	230	69	160	1,200	123	93	90	17	16	8.1
18	75	441	200	74	140	946	137	93	350	17	14	9.4
19	76	323	173	86	124	734	134	72	130	15	17	8.6
20	72	479	381	81	121	618	114	89	274	17	14	8.7
21	68	350	504	65	117	542	99	86	129	142	15	8.6
22	67	263	614	109	112	420	91	72	85	69	13	9.0
23	95	213	511	163	108	364	89	202	65	35	12	31
24	123	177	375	119	101	388	86	438	92	26	11	12
25	98	157	283	97	97	350	75	331	94	37	8.8	10
26	85	180	250	95	107	409	70	329	64	34	9.3	9.5
27	76	196	243	162	103	309	124	226	56	54	9.7	9.2
28	74	183	194	345	119	230	467	238	53	27	10	8.6
29	106	149	167	353	------	222	286	227	45	21	10	16
30	118	131	181	212	------	302	192	186	36	19	10	21
31	98	------	196	153	------	251	------	403	------	17	23	------
TOTAL	7,876	12,665	9,997	4,926	6,256	14,670	6,664	5,190	2,967	1,039	492.8	332.4
MEAN	254	422	322	159	223	473	222	167	98.9	33.5	15.9	11.1
MAX	1,380	1,150	727	663	876	1,480	566	438	350	142	39	31
MIN	67	107	123	65	97	187	70	72	36	15	8.8	8.1
CFSM	1.74	2.89	2.21	1.09	1.53	3.24	1.52	1.14	.68	.23	.11	.08
IN.	2.01	3.23	2.55	1.26	1.59	3.74	1.70	1.32	.76	.25	.13	.08

CAL YR 1972 TOTAL 74,506.0 MEAN 204 MAX 1,380 MIN 16 CFSM 1.40 IN 18.98
WTR YR 1973 TOTAL 73,075.2 MEAN 200 MAX 1,480 MIN 8.1 CFSM 1.37 IN 18.62

PEAK DISCHARGE (BASE, 1,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-1	2330	11.24	1,470	11-15	1600	10.88	1,180
11-9	0400	10.07	1,020	3-16	0500	12.03	1,580

03117000 Tuscarawas River at Massillon, Ohio

LOCATION.--Lat 40°46'13", long 81°31'27", in sec. 20, T.10 N., R.9 W., Stark County, on left bank at sewage-treatment works, 0.7 mi (1.1 km) south of Massillon, and 3 mi (5 km) downstream from Newman Creek.

DRAINAGE AREA.--518 mi² (1,342 km²).

PERIOD OF RECORD.--October 1937 to current year. Prior to April 1938 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 916.00 ft (279.197 m) above mean sea level, adjustment of 1912. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 414 ft³/s (11.72 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,420 ft³/s (96.9 m³/s) Mar. 15, gage height, 8.32 ft (2.536 m); minimum, 76 ft³/s (2.15 m³/s) Sept. 9.

Period of record: Maximum discharge, 10,700 ft³/s (303 m³/s) July 5, 1969, gage height, 16.43 ft (5.008 m); minimum, 54 ft³/s (1.53 m³/s) July 25, 1954, Aug. 20, 1962, Oct. 13, 1963.

REMARKS.--Records good. Diversion from basin and regulation at Portage Lakes (including Nimisila Reservoir since 1939). See REMARKS for station 03116000. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.320	248	410	557	513	489	822	671	818	195	174	144
2	2.220	911	399	486	1.250	754	782	595	587	183	278	109
3	1.900	1.240	377	427	1.770	911	733	545	472	179	219	109
4	1.530	1.000	390	1.200	1.650	922	733	492	492	209	165	111
5	1.110	671	495	1.340	1.410	1.010	1.390	449	545	248	144	114
6	723	475	1.070	1.020	1.060	1.330	1.390	399	498	204	146	123
7	554	510	1.430	585	926	1.260	1.050	377	443	172	144	115
8	446	1.540	1.350	429	796	1.050	837	358	443	170	142	100
9	366	1.630	1.270	388	800	789	833	563	334	167	142	87
10	316	1.530	1.130	369	536	699	1.240	658	280	176	150	90
11	285	1.230	930	342	446	804	1.400	1.090	263	223	150	98
12	366	833	691	290	382	942	1.260	958	300	179	188	92
13	524	667	1.330	290	360	887	978	684	285	161	219	90
14	402	2.110	1.380	295	390	833	747	466	250	143	216	100
15	316	2.520	1.250	293	708	3.220	569	437	221	163	273	94
16	240	2.360	1.010	290	691	3.150	501	477	342	151	197	85
17	280	1.920	661	298	572	3.240	504	423	726	145	161	92
18	260	1.420	613	306	521	2.930	645	396	793	139	148	100
19	258	1.080	585	321	469	2.440	616	366	533	135	137	102
20	253	1.190	856	344	424	2.020	536	418	660	167	144	94
21	240	1.090	1.230	283	461	1.770	492	432	492	649	181	95
22	228	899	1.350	328	458	1.480	427	371	342	440	159	105
23	248	722	1.360	562	464	1.230	452	605	278	250	152	170
24	334	548	1.190	534	427	1.160	424	1.440	377	190	139	144
25	306	475	914	427	377	1.160	369	1.290	565	209	123	119
26	347	495	743	380	396	1.240	347	978	305	536	119	117
27	301	604	747	393	399	1.200	481	838	258	593	119	111
28	240	597	638	671	418	934	1.330	719	293	264	121	111
29	245	533	539	958	------	815	1.230	737	273	190	119	146
30	301	427	516	757	------	1.040	868	730	223	170	135	154
31	273	------	551	569	------	1.000	------	894	------	167	192	------
TOTAL	17.782	31.525	27.385	15.717	19.069	42.708	23.986	19.846	12.671	7.187	5.096	3.329
MEAN	574	1.051	883	507	681	1.378	800	640	422	232	164	111
MAX	2.320	2.520	1.430	1.340	1.770	3.240	1.400	1.440	818	649	278	170
MIN	228	298	377	283	360	489	347	358	221	135	119	85

CAL YR 1972 TOTAL 214.986 MEAN 587 MAX 2.770 MIN 119
WTR YR 1973 TOTAL 226.301 MEAN 620 MAX 3.240 MIN 85

PEAK DISCHARGE (BASE, 2,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-1	0900	6.57	2,350	3-15	1500	8.32	3,420
11-15	0200	6.97	2,560				

03117500 Sandy Creek at Waynesburg, Ohio

LOCATION.--Lat 40°40'21", long 81°15'36", in sec. 21, T.17 N., R.7 W., Stark County, on upstream side of left pier of bridge on State Highway 183 in Waynesburg, 300 ft (91 m) downstream from Little Sandy Creek, and 0.6 mi (1.0 km) upstream from Indian Run.

DRAINAGE AREA.--253 mi² (655 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to December 1938 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 955.00 ft (291.084 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--35 years, 252 ft³/s (7.137 m³/s), 13.53 in/yr (343.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,230 ft³/s (63.2 m³/s) Mar. 15, gage height, 5.37 ft (1.637 m); minimum, 42 ft³/s (1.19 m³/s) Oct. 9, 10.

Period of record: Maximum discharge, 15,000 ft³/s (425 m³/s) Jan. 22, 1959, gage height, 10.05 ft (3.063 m), from rating curve extended above 4,700 ft³/s (133 m³/s) on basis of contracted-opening and flow over road measurement of peak flow; minimum, 6.9 ft³/s (0.20 m³/s) Sept. 12, 13, 1971.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 923: 1939-40. WSP 1555: 1940(M), 1943(M), 1947(M), 1952, 1956(M). WSP 1907: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	69	322	328	370	271	454	713	440	116	80	72
2	141	409	316	301	759	298	496	557	352	105	78	61
3	103	1.010	304	274	1.090	316	458	510	319	94	72	57
4	83	585	313	689	1.020	377	465	482	337	93	63	53
5	73	402	535	605	781	468	889	409	316	102	57	82
6	68	289	979	458	593	633	804	340	328	107	53	357
7	66	253	1.300	364	585	514	633	301	301	87	51	163
8	63	617	1.080	295	549	465	601	289	262	80	49	114
9	51	661	1.250	280	503	398	637	451	222	74	47	91
10	44	510	1.100	256	398	381	729	451	199	74	44	80
11	46	430	853	233	334	370	817	1.140	180	76	63	74
12	63	364	641	209	292	395	759	858	165	70	63	68
13	78	310	768	188	277	358	625	693	163	65	55	63
14	79	1.050	661	183	301	409	528	524	153	61	63	63
15	63	1.090	593	188	573	2.030	468	458	139	61	180	65
16	58	781	957	191	585	1.760	419	405	151	59	160	54
17	55	573	650	193	514	1.630	398	370	188	55	112	55
18	50	426	600	204	447	1.320	400	355	285	53	112	55
19	52	355	550	247	358	1.040	1.000	319	222	51	166	55
20	52	524	705	301	355	880	737	423	163	53	125	53
21	47	482	804	212	352	777	565	444	141	91	465	51
22	47	402	725	298	331	629	486	334	135	91	358	63
23	52	370	633	475	310	514	514	370	123	72	222	437
24	52	337	517	388	292	468	531	1.110	148	63	155	224
25	58	310	444	304	280	444	423	1.530	217	89	125	139
26	55	384	419	292	274	589	370	1.210	196	132	105	107
27	50	433	437	322	262	524	549	961	146	325	91	91
28	47	384	384	472	262	412	1.430	907	153	214	80	82
29	55	352	343	565	------	402	1.190	725	168	121	72	128
30	61	325	322	416	------	475	943	557	135	91	65	250
31	58	------	319	388	------	510	------	517	------	80	80	------
TOTAL	2.075	14.487	19.824	10.119	13.047	20.057	19.718	18.713	6.427	2.907	3.497	3.326
MEAN	66.9	483	639	326	466	647	657	604	214	93.8	113	111
MAX	205	1.090	1.300	689	1.090	2.030	1.430	1.530	440	325	465	437
MIN	44	69	304	183	262	271	370	289	123	51	47	51
CFSM	.26	1.91	2.53	1.29	1.84	2.56	2.60	2.39	.85	.37	.45	.44
IN.	.31	2.13	2.91	1.49	1.92	2.95	2.90	2.75	.94	.43	.51	.49

CAL YR 1972 TOTAL 111.719 MEAN 305 MAX 1.840 MIN 27 CFSM 1.21 IN 16.43
WTR YR 1973 TOTAL 134.197 MEAN 368 MAX 2.030 MIN 44 CFSM 1.45 IN 19.73

PEAK DISCHARGE (BASE, 1,800 FT³/S)).--Mar. 15 (2200) 2,230 FT³/S (5.37 ft).

03118000 Middle Branch Nimishillen Creek at Canton, Ohio

LOCATION.--Lat 40°50'29", long 81°21'14", in NE 1/4 sec. 27, T.11 N., R.8 W., Stark County, on right bank at downstream side of bridge on Martindale Road, 2.4 mi (3.9 km) upstream from mouth, and 0.5 mi (0.8 km) northeast of Canton.

DRAINAGE AREA.--43.1 mi² (112 km²).

PERIOD OF RECORD.--September 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,046.60 ft (319.004 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--32 years, 32.0 ft³/s (0.906 m³/s).

EXTREMES.--Current year: Maximum discharge, 774 ft³/s (21.9 m³/s) Mar. 15, gage height, 5.38 ft (1.640 m); minimum, 8.6 ft³/s (0.24 m³/s) several days in September.
Period of record: Maximum discharge, 2,470 ft³/s (70.0 m³/s) Jan. 22, 1959, gage height, 6.50 ft (1.981 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.2 ft³/s (0.006 m³/s) Nov. 9, 1944, Sept. 19, 1962.

REMARKS.--Records good. Part of municipal water supply for city of Canton is pumped from its northeast well field; a large portion of pumpage is believed to be derived indirectly from creek as recharge for aquifer supplying well field. Mean pumpage for water year 1973, 12.8 ft³/s (0.36 m³/s). At times low flow regulated by small pools above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1033: 1942(M), 1943(P), 1944(M). WSP 1305: 1946(M). WSP 1143: 1948. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	18	37	53	37	50	76	56	41	29	22	18
2	46	78	36	44	185	75	78	49	36	23	22	13
3	31	176	37	41	204	76	67	48	33	21	19	11
4	25	72	37	159	96	86	92	43	37	20	18	10
5	23	46	59	95	68	102	224	41	33	22	16	10
6	21	33	135	56	61	139	106	37	35	20	15	12
7	22	35	191	42	82	80	74	35	53	19	15	11
8	20	163	84	35	73	64	82	34	39	17	14	10
9	19	134	131	32	64	52	82	59	31	16	14	9.7
10	16	68	135	30	51	70	173	87	27	16	14	9.3
11	16	54	85	28	42	67	125	215	25	20	15	9.3
12	20	44	66	27	36	75	94	104	28	17	17	9.7
13	26	38	192	25	33	59	69	79	29	15	18	9.0
14	21	228	121	25	38	94	56	58	22	14	17	9.7
15	18	277	90	25	85	610	49	51	21	16	35	10
16	16	125	127	25	67	317	44	46	25	14	23	9.3
17	16	78	74	26	55	195	47	48	31	13	18	8.6
18	16	59	55	28	46	126	129	44	47	13	15	9.0
19	16	52	56	34	37	124	80	40	39	13	14	9.3
20	15	113	125	36	41	135	60	63	29	14	15	9.3
21	15	78	155	28	42	130	51	67	25	94	66	9.3
22	14	64	152	39	40	105	46	49	23	41	33	10
23	15	56	107	66	40	87	51	72	21	23	21	17
24	18	45	80	48	38	104	49	131	23	19	17	11
25	17	40	66	36	38	98	41	91	36	18	15	9.7
26	16	54	64	35	40	144	39	67	23	41	13	9.3
27	15	59	67	43	38	93	60	56	22	194	12	8.6
28	15	53	56	72	42	69	173	68	51	70	11	9.0
29	17	45	50	82	------	72	89	61	76	35	10	14
30	18	39	50	47	------	113	63	51	34	27	11	16
31	16	------	51	36	------	94	------	48	------	23	33	------
TOTAL	675	2,424	2,770	1,398	1,719	3,705	2,469	1,999	998	930	594	321.1
MEAN	21.8	80.8	89.4	45.1	61.4	120	82.3	64.5	33.3	30.0	19.2	10.7
MAX	97	277	192	159	204	610	224	215	76	199	66	18
MIN	14	18	36	25	33	50	39	34	21	13	10	8.6

CAL YR 1972 TOTAL 19,751.3 MEAN 54.0 MAX 720 MIN 8.5
WTR YR 1973 TOTAL 20,002.1 MEAN 54.8 MAX 610 MIN 8.6

PEAK DISCHARGE (BASE, 400 FT³/S).--Mar. 15 (1700) 774 FT³/S (5.38 ft).

03118500 Nimishillen Creek at North Industry, Ohio

LOCATION.--Lat 40°44'03", long 81°21'08", in sec. 35, T.10 N., R.8 W., Stark County, on left bank just downstream from railroad bridge, 1 mi (2 km) southeast of North Industry, and 3 mi (5 km) downstream from Sherrick Run.

DRAINAGE AREA.--175 mi² (453 km²).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 970.77 ft (295.891 m) above mean sea level, adjustment of 1912. Prior to Dec. 13, 1923, nonrecording gage at site 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--52 years, 170 ft³/s (4.814 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 15, gage height, 6.73 ft (2.051 m); minimum, 78 ft³/s (2.21 m³/s) several days in September.

Period of record: Maximum discharge, 8,600 ft³/s (244 m³/s) Jan. 21, 1959, gage height, 11.29 ft (3.441 m), from rating curve extended above 6,500 ft³/s (184 m³/s) on basis of slope-area measurement of peak flow; minimum, 3.6 ft³/s (0.10 m³/s) Sept. 2, 1934.

REMARKS.--Records good. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 1973 water year 19.0 ft³/s (0.54 m³/s). See REMARKS for station 03124500. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1113: 1924-30, 1932-37, 1938(M), 1939-40, 1943(M), 1945(P). WSP 1555: 1929, 1935, 1937(M), 1940(M), 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	205	205	250	211	232	382	265	229	150	145	122
2	184	785	199	229	760	284	318	265	208	158	134	95
3	145	655	198	277	745	290	472	262	238	150	125	94
4	130	284	229	690	398	308	845	238	262	145	117	100
5	126	202	280	386	298	452	470	223	252	150	107	116
6	128	178	810	265	294	484	346	202	336	140	111	125
7	124	319	601	217	370	332	422	196	274	128	113	103
8	112	730	439	196	336	284	438	252	211	119	111	94
9	110	480	579	181	301	259	700	308	181	121	112	87
10	106	294	525	169	244	318	511	456	163	148	143	94
11	104	256	350	163	214	308	410	761	169	136	169	96
12	193	208	329	155	190	304	329	411	339	124	169	97
13	143	262	720	148	190	259	277	314	196	118	119	92
14	117	1.250	457	143	196	1.260	250	261	163	111	158	98
15	104	775	480	153	410	1.880	247	243	155	139	279	95
16	110	426	516	153	382	775	533	224	278	116	148	86
17	110	312	288	158	241	700	596	262	378	112	127	92
18	114	253	271	166	220	488	354	219	362	109	162	102
19	112	277	280	193	211	534	290	207	226	109	121	95
20	106	475	543	196	217	529	259	366	190	246	140	97
21	102	329	561	158	226	457	274	285	172	429	315	93
22	93	274	529	250	232	378	301	240	160	191	188	122
23	119	238	390	305	214	362	271	411	150	146	140	139
24	119	217	319	235	199	358	235	968	320	130	124	100
25	110	208	280	199	193	480	226	660	232	187	112	97
26	106	247	315	193	214	422	410	360	166	326	102	93
27	104	256	305	232	205	312	871	287	201	604	108	91
28	99	244	268	322	211	318	506	426	446	265	107	91
29	112	217	244	370	------	452	340	308	247	168	104	189
30	108	202	244	241	------	402	304	290	175	151	151	113
31	106	------	253	211	------	332	------	268	------	155	210	------
TOTAL	3.840	11.058	11.991	7.204	8.122	14.553	12.187	10.438	7.079	5.485	4.471	3.108
MEAN	124	369	387	232	290	469	406	337	236	177	144	104
MAX	284	1.250	810	690	760	1.880	871	968	446	604	315	189
MIN	93	178	190	143	190	232	226	196	150	109	102	86

CAL YR 1972 TOTAL 95.726 MEAN 262 MAX 1.830 MIN 85
WTR YR 1973 TOTAL 99.536 MEAN 273 MAX 1.880 MIN 86

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	0130	6.73	3,500	6-28	0800	4.28	1,510
6-12	1315	4.42	1,600				

03120500 McGuire Creek below Leesville Dam, near Leesville, Ohio

LOCATION.--Lat 40°28'13", long 81°11'48", in E 1/2 sec. 36, T.13 N., R.6 W., Carroll County, on left bank at outlet of Leesville Dam, 1.3 mi (2.1 km) upstream from mouth, and 1.4 mi (2.3 km) northeast of Leesville.

DRAINAGE AREA.--48.3 mi^2 (125 km^2).

PERIOD OF RECORD.--October 1938 to current year. Published as McGuire Creek near Leesville 1938-39.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 915.00 ft (278.892 m) above mean sea level. Prior to May 27, 1942, nonrecording gage at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--35 years, 50.8 ft^3/s (1.439 m^3/s).

EXTREMES.--Current year: Maximum discharge, 203 ft^3/s (5.75 m^3/s) Nov. 20, gage height, 4.20 ft (1.280 m); minimum, 0.65 ft^3/s (0.018 m^3/s) Mar. 1, gage height, 1.90 ft (0.579 m).

Period of record: Maximum discharge, 740 ft^3/s (21.0 m^3/s) Mar. 4, 1940; maximum gage height, 7.88 ft (2.402 m) Mar. 4, 1940 (backwater from Conotton Creek); no flow several days during 1939-41.

REMARKS.--Records good. Flow regulated by Leesville Lake (see station 03120000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	5.2	183	44	109	1.6	9.2	161	115	11	9.4	6.6
2	8.0	21	181	22	76	2.0	9.4	171	72	10	8.9	6.1
3	7.6	63	181	14	15	1.8	17	159	72	9.9	8.1	5.3
4	7.2	61	180	55	15	1.8	48	147	85	9.3	7.6	4.9
5	7.2	54	180	104	105	1.8	80	92	89	8.9	7.0	4.7
6	6.8	43	180	111	172	1.7	114	68	88	6.6	6.4	5.8
7	6.8	40	181	111	172	1.6	145	65	92	4.3	5.9	5.6
8	6.3	71	120	108	168	1.6	139	63	88	4.2	5.4	5.3
9	5.8	82	2.7	57	167	1.5	110	69	82	2.9	4.9	4.9
10	5.3	81	2.6	9.9	167	1.4	106	69	75	1.9	4.8	4.5
11	4.9	76	111	4.9	166	1.2	110	85	67	2.1	4.7	4.2
12	5.8	69	178	4.9	164	1.2	110	90	59	1.8	6.2	3.9
13	6.1	61	178	4.9	113	1.7	106	89	50	1.8	6.6	3.6
14	5.9	89	178	4.9	37	2.0	82	87	41	1.7	8.4	3.5
15	5.6	102	176	16	51	2.2	69	82	32	1.7	52	3.3
16	5.3	122	178	23	104	2.2	67	77	33	1.6	49	3.1
17	5.0	167	176	23	120	1.5	67	75	46	1.5	39	2.8
18	4.7	145	176	63	120	4.8	73	71	62	4.6	34	2.7
19	4.7	111	174	99	118	23	73	65	57	6.3	23	2.4
20	4.5	160	174	120	118	121	70	67	48	6.0	24	2.3
21	4.2	198	174	70	118	145	66	65	41	12	60	2.0
22	4.0	194	172	7.6	41	169	63	61	34	15	53	2.1
23	4.4	192	172	50	1.5	186	65	57	26	13	41	5.9
24	4.7	190	171	68	1.5	113	67	66	20	11	31	6.3
25	4.7	190	136	68	1.5	111	63	96	28	14	20	6.3
26	4.5	189	75	68	1.5	127	61	104	21	19	16	5.9
27	4.4	189	45	68	1.5	127	71	104	15	23	12	5.6
28	4.4	187	51	68	1.5	55	108	107	15	15	10	5.5
29	4.7	185	64	68	------	6.5	118	144	14	12	8.8	6.5
30	4.7	185	75	82	------	6.5	118	157	13	10	7.8	7.8
31	4.6	------	66	103	------	7.0	------	151	------	9.3	7.2	------
TOTAL	171.1	3,522.2	4,291.3	1,700.1	2,445.0	1,230.6	2,404.6	2,964	1,580	251.4	582.1	139.4
MEAN	5.52	117	138	54.8	87.3	39.7	80.2	95.6	52.7	8.11	18.8	4.65
MAX	8.3	198	183	120	172	186	145	171	115	23	60	7.8
MIN	4.0	5.2	2.6	4.9	1.5	1.2	9.2	57	13	1.5	4.7	2.0

CAL YR 1972 TOTAL 19,663.5 MEAN 53.7 MAX 282 MIN 1.2

WTR YR 1973 TOTAL 21,281.8 MEAN 58.3 MAX 198 MIN 1.2

03121500 Indian Fork below Atwood Dam, near New Cumberland, Ohio

LOCATION.--Lat 40°31'31", long 81°17'18", in SE 1/4 sec. 28, T.15 N., R.7 W., Tuscarawas County, on left bank 500 ft (152 m) downstream from Atwood Dam, 0.5 mi (0.8 km) upstream from mouth, and 1.5 mi (2.4 km) southeast of New Cumberland.

DRAINAGE AREA.--70.0 mi^2 (181 km^2).

PERIOD OF RECORD.--October 1938 to current year. Published as Indian Fork near New Cumberland prior to 1940.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 884.00 ft (269.443 m) above mean sea level, adjustment of 1912. Prior to Aug. 28, 1943, nonrecording gage at site 250 ft (76 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 69.9 ft^3/s (1.980 m^3/s).

EXTREMES.--Current year: Maximum discharge, 477 ft^3/s (13.5 m^3/s) Mar. 22; maximum gage height, 10.54 ft (3.213 m) Feb. 6 (backwater from Conotton Creek); minimum discharge, 3.4 ft^3/s (0.096 m^3/s) Sept. 22, gage height, 5.91 ft (1.801 m).

Period of record: Maximum discharge, 1,610 ft^3/s (45.6 m^3/s) Apr. 7, 1945; maximum gage height, 21.23 ft (6.471 m) July 12, 1969 (from floodmark in gage house), backwater from Dover Lake; minimum discharge, 0.10 ft^3/s (0.003 m^3/s) at times during 1939, 1944, 1946-47, 1952, 1961, 1963, 1970, 1972.

REMARKS.--Records good. Flow completely regulated by Atwood Lake (see station 03121000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	11	88	75	178	72	82	371	77	14	19	11
2	26	42	88	73	162	70	205	358	76	13	15	10
3	20	86	86	70	110	67	135	343	74	12	14	9.4
4	18	97	85	79	118	67	69	144	74	12	12	8.7
5	20	98	98	182	355	70	165	58	78	11	11	8.4
6	15	242	92	218	461	191	216	62	76	10	10	8.6
7	14	158	196	206	447	148	215	60	78	9.2	9.9	8.2
8	13	125	194	96	174	74	210	60	76	8.7	9.4	7.5
9	12	98	117	53	81	77	119	71	72	8.4	9.0	7.0
10	12	184	121	44	83	78	82	76	69	8.9	9.4	6.6
11	12	229	209	32	84	79	265	87	60	10	9.8	6.1
12	13	221	252	19	83	79	249	96	53	9.4	9.8	5.8
13	14	123	251	12	82	79	82	246	47	9.2	9.9	5.6
14	14	91	292	7.9	80	79	172	280	35	8.7	10	5.5
15	13	109	310	6.7	268	103	210	135	23	8.3	21	5.4
16	12	163	308	6.3	154	118	104	67	23	7.7	21	5.0
17	12	243	306	9.8	79	121	57	70	38	7.3	21	4.8
18	12	236	297	11	83	123	194	70	57	6.8	20	4.7
19	12	227	286	13	83	124	140	69	57	6.2	20	4.4
20	12	222	132	18	84	206	76	71	57	6.0	18	4.3
21	12	136	178	20	85	255	79	73	41	7.6	44	4.1
22	12	95	123	29	85	392	80	72	29	8.3	50	4.0
23	11	93	88	58	85	471	252	72	23	7.9	44	7.3
24	10	88	90	74	83	459	153	86	19	7.6	29	8.2
25	10	86	91	78	79	224	65	129	18	8.0	23	8.2
26	9.8	88	228	78	80	252	67	172	17	11	18	7.9
27	9.6	96	136	80	76	162	75	171	16	32	12	7.6
28	9.4	96	77	91	73	72	101	170	17	29	13	7.6
29	9.8	95	77	176	------	72	114	232	18	23	12	8.7
30	9.9	91	76	124	------	76	278	285	15	20	12	18
31	9.8	------	75	85	------	79	------	134	------	15	12	------
TOTAL	407.3	3,969	5,047	2,124.7	3,895	4,539	4,311	4,390	1,413	356.2	548.2	218.6
MEAN	13.1	132	163	68.5	139	146	144	142	47.1	11.5	17.7	7.29
MAX	26	243	310	218	461	471	278	371	78	32	50	18
MIN	9.4	11	75	6.3	73	67	57	58	15	6.0	9.0	4.0

CAL YR 1972 TOTAL 26,464.7 MEAN 72.3 MAX 477 MIN 1.1
WTR YR 1973 TOTAL 31,219.0 MEAN 85.5 MAX 471 MIN 4.0

03122500 Tuscarawas River below Dover Dam, near Dover, Ohio

LOCATION.--Lat 40°31'47", long 81°25'48", in T.9 N., R.2 W., Tuscarawas County, on left bank at downstream side of bridge on State Highway 416, 2.2 mi (3.5 km) downstream from Dover Dam, 1.5 mi (2.4 km) east of Dover, and 3.4 mi (5.5 km) upstream from Sugar Creek.

DRAINAGE AREA.--1,405 mi² (3,639 km²).

PERIOD OF RECORD.--October 1923 to current year. Published as Tuscarawas River near Dover 1923-39.

GAGE.--Water-stage recorder. Datum of gage is 861.51 ft (262.588 m) above mean sea level, adjustment of 1912. Prior to Aug. 30, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 1,358 ft³/s (38.46 m³/s).

EXTREMES.--Current year: Maximum discharge, 5,830 ft³/s (165 m³/s) Mar. 20, gage height, 7.10 ft (2.164 m); minimum, 384 ft³/s (10.9 m³/s) Oct. 11.

Period of record: Maximum discharge, 26,400 ft³/s (748 m³/s) Jan. 26, 1937, gage height, 15.51 ft (4.727 m); minimum, 2.3 ft³/s (0.065 m³/s) July 20, 1946, Oct. 27, 1948; minimum daily, 6.5 ft³/s (0.18 m³/s) Oct. 26, 1948.

Flood in March 1913 reached a stage of about 23.5 ft (7.16 m), discharge, 62,000 ft³/s (1,760 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Diversion from basin at Portage Lakes (see REMARKS for stations 03116000 and 03117000). Records include diversion from Sugar Creek well field. Mean pumpage for the 1973 water year, 19.0 ft³/s (0.54 m³/s) (see REMARKS for station 03124500). Flow regulated by four flood-control reservoirs since 1936 at points 2.2 mi (3.5 km) to 25 mi (40 km) upstream (see stations 03119500, 03120000, 03121000, and 03122000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1933(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,720	700	1,670	1,780	1,880	1,430	2,560	3,600	2,800	720	649	614
2	2,750	1,550	1,630	1,630	3,130	1,680	2,540	3,020	2,250	649	614	495
3	2,490	3,450	1,570	1,450	4,800	2,040	2,540	2,680	1,790	635	691	437
4	2,150	3,320	1,560	2,640	4,720	2,230	2,330	2,470	1,810	614	579	437
5	1,780	2,370	1,960	3,700	4,050	2,310	3,730	2,120	1,890	656	495	443
6	1,330	1,710	2,740	3,220	3,550	3,310	4,350	1,750	1,810	656	463	663
7	1,090	1,600	4,380	2,440	3,390	3,390	3,770	1,540	1,890	586	463	691
8	930	3,040	4,450	1,870	3,130	2,720	3,120	1,450	1,650	530	450	530
9	775	3,810	4,470	1,400	2,780	2,340	3,090	1,830	1,430	502	437	456
10	665	3,610	4,190	1,300	2,330	2,060	3,330	2,080	1,190	607	450	424
11	625	3,120	3,750	1,200	1,930	2,160	3,990	3,200	1,070	684	551	430
12	695	2,500	3,260	1,100	1,670	2,370	3,970	3,920	1,000	600	628	424
13	991	2,030	3,480	1,000	1,570	2,260	3,320	3,440	1,210	537	579	412
14	948	3,370	4,030	1,000	1,520	2,010	2,730	2,830	970	509	621	418
15	766	4,940	3,720	1,030	2,230	4,780	2,370	2,240	848	502	1,040	437
16	672	5,160	3,500	946	3,000	5,340	2,040	1,890	840	502	930	412
17	663	4,720	3,300	923	2,290	5,340	1,840	1,770	1,490	482	720	388
18	631	3,700	2,950	970	1,980	5,480	3,010	1,680	2,170	456	628	424
19	624	2,820	2,720	1,100	1,870	5,510	3,510	1,530	1,880	450	691	424
20	611	2,900	2,900	1,380	1,700	5,630	3,150	1,630	1,430	450	621	418
21	590	3,090	3,600	1,230	1,770	5,630	2,510	1,940	1,380	994	870	406
22	572	2,610	3,860	1,240	1,810	5,570	2,050	1,670	1,070	1,210	1,220	418
23	570	2,280	3,700	1,880	1,660	5,620	2,020	1,560	900	758	908	893
24	683	1,970	3,230	2,030	1,540	5,390	2,280	3,660	795	607	735	848
25	732	1,740	2,750	1,650	1,440	4,520	1,880	4,740	1,350	593	628	614
26	712	1,760	2,440	1,470	1,380	3,320	1,650	4,570	1,110	833	551	516
27	719	2,040	2,500	1,490	1,390	3,630	1,750	4,210	848	1,870	509	476
28	654	2,060	2,150	1,980	1,380	2,830	3,590	3,910	840	1,410	489	463
29	607	1,940	1,860	2,730	------	2,390	4,540	3,660	1,210	855	476	593
30	658	1,740	1,740	2,560	------	2,660	4,300	3,380	893	670	456	893
31	693	------	1,740	2,010	------	2,930	------	2,970	------	600	628	------
TOTAL	31,096	81,650	91,800	52,349	65,890	108,880	87,960	82,940	41,814	21,727	19,770	15,497
MEAN	1,003	2,722	2,961	1,689	2,353	3,512	2,932	2,675	1,394	701	638	517
MAX	2,750	5,160	4,470	3,700	4,800	5,630	4,540	4,740	2,800	1,870	1,220	893
MIN	570	700	1,560	923	1,380	1,430	1,650	1,450	795	450	437	388

CAL YR 1972 TOTAL 637,490 MEAN 1,742 MAX 5,440 MIN 348
WTR YR 1973 TOTAL 701,373 MEAN 1,922 MAX 5,630 MIN 388

03123000 Sugar Creek above Beach City Dam, at Beach City, Ohio

LOCATION.--Lat 40°39'24", long 81°34'37", in NE 1/4 sec.35, T.11 N., R.10 W., Stark County, on right bank at downstream side of Third Avenue bridge at Beach City, 2.3 mi (3.7 km) upstream from Beach City Dam.

DRAINAGE AREA.--160 mi² (414 km²).

PERIOD OF RECORD.--October 1944 to current year. Prior to May 1945 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 953.20 ft (290.535 m) above mean sea level, adjustment of 1912. Water-stage recorder for Beach City Lake (station 03123500) used as auxiliary gage for this station.

AVERAGE DISCHARGE.--29 years, 135 ft³/s (3.823 m³/s), 11.46 in/yr (291.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,440 ft³/s (69.1 m³/s) Mar. 16, gage height, 6.59 ft (2.009 m); minimum daily, 19 ft³/s (0.54 m³/s) Sept. 22, 27.

Period of record: Maximum daily discharge, 7,960 ft³/s (225 m³/s) Jan. 22, 1959; maximum gage height, 23.76 ft (7.242 m) July 6, 1969 (backwater from Beach City Lake); minimum discharge, 1.4 ft³/s (0.040 m³/s) Aug. 27, 1952.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	635	73	165	212	186	172	242	206	252	60	53	50
2	721	362	157	174	557	292	218	178	163	54	52	30
3	298	1,070	152	147	1,090	320	188	169	140	53	52	25
4	152	835	154	460	814	324	198	150	198	53	41	23
5	118	400	220	572	431	379	476	135	344	53	36	23
6	106	238	370	335	298	578	445	118	236	47	34	69
7	103	232	718	190	364	467	280	109	202	47	31	46
8	91	844	596	140	328	359	258	104	150	40	29	29
9	79	1,110	541	120	272	260	293	135	116	40	28	24
10	67	685	549	110	190	270	421	156	100	50	28	24
11	60	390	472	100	150	315	479	402	87	124	40	23
12	69	276	309	98	140	355	346	368	87	53	94	22
13	163	222	496	90	140	292	246	214	141	43	64	26
14	110	694	637	90	238	250	200	159	87	38	53	25
15	87	1,420	467	90	335	1,520	171	136	71	39	107	23
16	74	1,000	424	85	346	1,930	154	124	87	37	79	22
17	74	528	260	88	250	884	148	123	377	33	50	20
18	68	328	240	95	210	714	409	115	392	30	44	20
19	67	252	228	107	180	473	337	101	262	28	40	21
20	68	395	328	110	172	419	230	124	180	28	39	21
21	62	412	460	81	154	409	188	138	152	76	36	20
22	61	287	486	139	140	337	161	110	107	81	34	21
23	61	234	460	228	147	270	172	120	88	47	30	38
24	79	200	346	172	133	252	186	567	76	39	28	36
25	80	178	274	118	124	242	150	814	89	43	27	24
26	69	196	246	123	135	282	133	775	81	190	26	21
27	62	206	260	174	129	317	167	520	69	409	25	20
28	59	200	224	386	138	228	520	333	79	315	23	21
29	61	192	190	457	------	220	518	291	95	103	22	35
30	73	165	186	317	------	293	280	256	69	69	23	88
31	70	------	210	220	------	302	------	280	------	55	57	------
TOTAL	3,947	13,624	10,825	5,828	7,791	13,705	8,214	7,530	4,577	2,377	1,325	890
MEAN	127	454	349	188	278	442	274	243	153	76.7	42.7	29.7
MAX	721	1,420	718	572	1,090	1,930	520	814	392	409	107	88
MIN	59	73	152	81	124	172	133	101	69	28	22	20
CFSM	.79	2.84	2.18	1.18	1.74	2.76	1.71	1.52	.96	.48	.27	.19
IN.	.92	3.17	2.52	1.36	1.81	3.19	1.91	1.75	1.06	.55	.31	.21

CAL YR 1972 TOTAL 77,208 MEAN 211 MAX 1,420 MIN 26 CFSM 1.32 IN 17.95
WTR YR 1973 TOTAL 80,633 MEAN 221 MAX 1,930 MIN 20 CFSM 1.38 IN 18.75

03124000 Sugar Creek below Beach City Dam, near Beach City, Ohio

LOCATION.--Lat 40°38'08", long 81°33'11", in T.10 N., R.3 W., Tuscarawas County, on right bank 1,000 ft (305 m) downstream from Beach City Dam, 0.4 mi (0.6 km) downstream from South Fork, and 1.8 mi (2.9 km) southeast of Beach City.

DRAINAGE AREA.--300 mi^2 (777 km^2).

PERIOD OF RECORD.--October 1938 to current year. Published as Sugar Creek near Beach City prior to 1940.

GAGE.--Water-stage recorder. Datum of gage is 928.00 ft (282.854 m) above mean sea level, adjustment of 1912. Prior to Mar. 23, 1939, nonrecording gage at site 500 ft (152 m) downstream at datum 1 ft (0 m) higher. Mar. 23, 1939, to Sept. 26, 1949, water-stage recorder at site 300 ft (91 m) downstream at present datum.

AVERAGE DISCHARGE.--35 years, 259 ft^3/s (7.335 m^3/s).

EXTREMES.--Current year: Maximum discharge, 2,050 ft^3/s (58.1 m^3/s) Mar. 19, gage height, 6.69 ft (2.039 m); minimum, 26 ft^3/s (0.74 m^3/s) Sept. 22.

Period of record: Maximum discharge, 7,520 ft^3/s (213 m^3/s) July 6, 1969, gage height, 11.26 ft (3.432 m), from floodmark in well; no flow Oct. 7-30, 1963.

REMARKS.--Records good. Flood flow regulated by Beach City Lake (see station 03123500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 953: 1941. WRD Ohio 1969: 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	686	85	287	370	398	286	630	583	438	110	80	66
2	842	324	282	328	818	385	592	476	323	95	79	47
3	512	1.280	279	282	1,720	467	536	431	261	86	71	35
4	268	1.500	279	674	1,550	498	500	386	300	83	61	30
5	186	942	451	1.150	946	563	914	342	556	100	52	28
6	156	480	666	810	650	1,000	1.050	298	462	101	47	49
7	136	375	1.260	474	714	908	775	262	437	82	43	76
8	126	1.070	1.170	326	700	720	641	245	350	71	41	51
9	109	1.450	1.070	240	617	551	696	294	269	65	39	37
10	92	1.450	1.120	210	477	500	791	330	223	83	39	32
11	80	1.300	954	200	392	534	939	626	194	282	55	31
12	83	675	678	175	308	564	789	824	173	184	132	29
13	169	461	790	171	297	500	610	560	210	111	161	28
14	167	847	1.020	162	317	443	493	403	190	86	123	30
15	123	1.280	846	165	521	1,480	419	330	147	74	192	32
16	101	1.320	874	165	688	1.670	368	288	134	70	186	31
17	94	1.290	619	167	433	1.440	345	267	329	63	112	29
18	90	1.170	511	178	387	1.650	760	255	514	57	86	28
19	84	589	489	199	380	1.930	1.310	225	459	53	80	28
20	87	609	558	227	349	1.390	906	242	280	50	72	28
21	79	677	774	175	325	855	632	276	242	80	63	27
22	76	517	802	232	293	706	500	233	184	151	55	27
23	76	416	770	455	289	569	462	214	150	107	48	77
24	86	352	625	399	268	498	484	694	130	76	44	109
25	96	312	514	291	247	467	415	1.290	129	68	41	58
26	88	322	453	252	251	523	361	1.270	135	132	39	39
27	79	344	474	278	249	822	368	921	116	420	37	32
28	73	345	425	556	252	810	937	665	113	415	35	30
29	74	331	365	723	------	634	1.200	560	144	192	34	51
30	81	294	342	545	------	670	807	468	133	112	32	110
31	84	------	357	395	------	744	------	448	------	85	46	------
TOTAL	5,083	22.407	20.104	10.974	14,836	24.777	20,230	14,706	7.725	3,744	2,225	1.305
MEAN	164	747	649	354	530	799	674	474	258	121	71.8	43.5
MAX	842	1.500	1.260	1.150	1.720	1.930	1.310	1.290	556	420	192	110
MIN	73	85	279	162	247	286	345	214	113	50	32	27

CAL YR 1972 TOTAL 130.484 MEAN 357 MAX 1.690 MIN 32
WTR YR 1973 TOTAL 148.116 MEAN 406 MAX 1.930 MIN 27

03124500 Sugar Creek at Strasburg, Ohio

LOCATION.--Lat 40°35'15", long 81°31'24", in NW 1/4 sec. 1, T.9 N., R.3 W., Tuscarawas County, on left bank 150 ft (46 m) upstream from bridge on State Highway 21, 0.8 mi (1.3 km) upstream from Broad Run, and 0.1 mi (0.2 km) southeast of Strasburg.

DRAINAGE AREA.--311 mi² (805 km²).

PERIOD OF RECORD.--August 1931 to March 1933, January 1935 to July 1939, October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 896.24 ft (273.174 m) above mean sea level, adjustment of 1912. July 29, 1931, to Mar. 31, 1933, and Dec. 10, 1934, to July 31, 1939, nonrecording gage, and Oct. 1, 1961, to May 26, 1964, water-stage recorder at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--16 years (1931-32, 1935-38, 1961-73), 278 ft³/s (7.873 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Mar. 19, gage height, 5.09 ft (1.551 m); minimum, 28 ft³/s (0.79 m³/s) Sept. 21, 22.

Period of record: Maximum discharge, 19,700 ft³/s (558 m³/s) Aug. 7, 1935, gage height, 14.70 ft (4.481 m) (present datum), from rating curve extended above 8,400 ft³/s (238 m³/s); no flow all or part of each day Sept. 29 to Nov. 6, 1963, Sept. 20, Dec. 3, 4, 1966.

REMARKS.--Records good. Flood flow regulated by Beach City Lake 5.0 mi (8.0 km) upstream, since August 1937 (see station 03123500). Part of municipal water supply for city of Canton, starting May 1962, is pumped from well field 4.3 mi (6.9 km) upstream; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 1973, 19.0 ft³/s (0.54 m³/s). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1932-33(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	695	81	324	400	436	291	690	630	508	112	103	77
2	886	297	320	344	800	400	640	520	380	97	95	58
3	560	1,280	316	249	1,650	496	584	472	297	87	79	43
4	304	1,580	304	655	1,570	536	544	420	324	94	68	36
5	209	1,070	484	1,170	1,000	584	936	368	612	103	58	33
6	176	548	710	876	690	1,000	1,090	312	524	103	54	49
7	153	408	1,250	528	735	960	820	276	476	81	48	86
8	140	1,060	1,280	356	760	775	680	258	376	72	46	59
9	125	1,490	1,150	270	675	608	740	297	276	65	44	42
10	107	1,500	1,210	230	528	536	830	344	229	105	44	37
11	92	1,390	1,020	210	432	572	966	650	196	340	55	36
12	90	775	750	190	350	600	825	860	176	204	123	35
13	164	520	795	180	310	552	650	604	218	116	191	33
14	186	860	1,080	176	336	500	508	444	196	94	147	36
15	140	1,350	912	174	532	1,420	456	356	149	72	204	36
16	117	1,390	918	176	735	1,680	404	308	136	68	232	36
17	107	1,360	645	174	476	1,440	380	282	356	60	138	33
18	101	1,280	540	184	400	1,610	790	270	568	54	103	29
19	95	705	500	204	380	1,860	1,320	243	520	49	92	29
20	93	655	588	240	360	1,420	942	255	308	49	87	29
21	89	760	810	184	340	894	675	294	270	84	76	29
22	86	604	840	229	316	755	544	252	202	172	66	30
23	83	488	825	480	300	616	496	237	160	117	59	83
24	89	416	685	444	285	544	520	780	136	80	53	119
25	101	360	568	312	264	508	452	1,370	129	72	49	64
26	100	360	500	267	261	560	392	1,350	134	142	48	43
27	83	392	516	279	264	845	396	990	117	488	44	36
28	73	392	472	568	261	855	930	740	117	516	42	34
29	70	384	404	745	------	690	1,230	635	155	252	39	59
30	74	336	372	588	------	710	865	540	140	149	37	119
31	80	------	380	424	------	790	------	512	------	112	46	------
TOTAL	5,468	24,091	21,468	11,506	15,446	25,607	21,295	15,869	8,385	4,189	2,570	1,468
MEAN	176	803	693	371	552	826	710	512	280	135	82.9	48.9
MAX	886	1,580	1,280	1,170	1,650	1,860	1,320	1,370	612	516	232	119
MIN	70	81	304	174	261	291	380	237	117	49	37	29

CAL YR 1972 TOTAL 140,652 MEAN 384 MAX 1,910 MIN 31
WTR YR 1973 TOTAL 157,362 MEAN 431 MAX 1,860 MIN 29

03125000 Home Creek near New Philadelphia, Ohio

LOCATION.--Lat 40°28'06", long 81°24'10", Tuscarawas County, on right bank 100 ft (30 m) downstream from highway bridge, 0.5 mi (0.8 km) upstream from the mouth, and 1.5 mi (2.4 km) southeast of New Philadelphia.

DRAINAGE AREA.--1.64 mi^2 (4.25 km^2).

PERIOD OF RECORD.--December 1936 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 872.49 ft (265.935 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--36 years (1937-73), 1.22 ft^3/s (0.0346 m^3/s), 10.11 in/yr (256.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 52 ft^3/s (1.47 m^3/s) Mar. 14, gage height, 2.47 ft (0.753 m); no flow Sept. 17.

Period of record: Maximum discharge, 378 ft^3/s (10.7 m^3/s) July 7, 1969, gage height, 5.77 ft (1.759 m); no flow at times in 1938-40, 1942-68, 1970-73.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1173: 1941(M). WSP 1385: 1951-53(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.52	1.2	1.1	2.3	1.2	1.7	1.2	.96	.09	.22	.02
2	.32	9.9	1.1	.96	11	1.3	1.7	1.1	.80	.19	.10	.02
3	.19	4.2	.91	4.5	5.3	1.5	1.4	1.1	1.2	.09	.06	.02
4	.14	1.6	1.2	7.0	2.9	1.5	4.3	1.0	1.1	.08	.07	.01
5	.14	.96	1.6	3.1	2.1	4.9	3.1	.96	.76	.06	.04	.01
6	.15	.67	7.2	1.9	2.5	3.0	1.8	.84	1.6	.05	.03	.03
7	.16	5.4	3.1	1.4	2.3	2.4	1.5	.74	1.6	.05	.02	.02
8	.12	6.7	6.0	1.2	2.2	1.8	1.6	2.2	.77	.04	.02	.01
9	.09	2.8	5.1	.84	2.1	1.6	1.6	2.7	.58	.04	.02	.01
10	.02	1.8	3.3	.64	1.9	1.6	1.9	5.0	.47	.52	.09	.01
11	.04	1.8	2.0	.54	1.7	1.7	1.5	8.8	.38	.16	.10	.01
12	.64	1.2	2.0	.45	1.6	2.1	1.3	3.5	.42	.08	.63	.01
13	.25	2.2	2.8	.35	1.6	1.6	1.0	2.3	.39	.06	.44	.01
14	.16	12	1.8	.40	2.4	8.1	.84	1.7	.26	.05	8.6	.01
15	.11	3.4	5.6	.45	4.9	9.6	.74	1.6	.22	.04	5.6	.01
16	.14	1.9	3.6	.53	2.8	5.9	.67	1.4	.61	.03	1.1	.01
17	.11	1.5	2.0	.62	2.0	5.8	1.1	1.7	2.0	.02	.58	0
18	.11	1.1	1.7	.67	1.5	4.0	1.6	1.2	2.6	.03	.40	.02
19	.16	1.8	1.7	1.5	1.5	3.1	1.1	1.2	.70	.02	.29	.03
20	.09	2.7	3.1	.82	1.4	2.7	.87	2.8	.44	.06	.22	.02
21	.09	1.6	2.4	.71	1.4	2.2	.77	1.4	.35	.80	.24	.01
22	.08	1.4	2.5	3.1	1.3	1.8	.84	1.2	.27	.21	.18	.01
23	.16	1.1	1.8	2.8	1.2	1.6	1.4	1.4	.22	.09	.10	.90
24	.15	.91	1.6	1.6	1.2	1.5	1.0	1.8	.20	.07	.09	.09
25	.10	1.0	1.4	1.5	1.2	1.8	.87	1.5	.23	.52	.08	.04
26	.09	1.5	1.8	1.3	1.1	4.5	.80	1.4	.16	2.0	.07	.03
27	.08	1.4	1.6	2.0	1.2	1.7	4.3	1.4	.14	.60	.05	.01
28	.08	1.3	1.3	2.6	1.1	1.4	5.3	2.9	.25	.17	.05	.01
29	.14	1.1	1.1	2.3	------	1.5	2.1	1.6	.20	.13	.05	.17
30	.10	1.1	1.0	1.8	------	2.4	1.5	1.5	.13	.07	.04	.11
31	.08	------	1.2	1.6	------	1.6	------	1.3	------	.15	.03	------
TOTAL	4.93	76.56	74.71	50.28	65.7	87.4	50.20	60.44	20.01	6.57	19.61	1.67
MEAN	.16	2.55	2.41	1.62	2.35	2.82	1.67	1.95	.67	.21	.63	.056
MAX	.64	12	7.2	7.0	11	9.6	5.3	8.8	2.6	2.0	8.6	.90
MIN	.02	.52	.91	.35	1.1	1.2	.67	.74	.13	.02	.02	0
CFSM	.10	1.55	1.47	.99	1.43	1.72	1.02	1.19	.41	.13	.38	.03
IN.	.11	1.74	1.69	1.14	1.49	1.98	1.14	1.37	.45	.15	.44	.04

CAL YR 1972 TOTAL 477.80 MEAN 1.31 MAX 14 MIN 0 CFSM .80 IN 10.84
WTR YR 1973 TOTAL 518.08 MEAN 1.42 MAX 12 MIN 0 CFSM .87 IN 11.75

PEAK DISCHARGE (BASE, 50 FT^3/S).--Mar. 14 (2145) 52 FT^3/S (2.47 ft).

03126000 Stillwater Creek at Piedmont, Ohio

LOCATION.--Lat 40°11'41", long 81°12'56", in sec. 35, T.10 N., R.6 W., Harrison County, on left bank 400 ft (122 m) downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mi (1.1 km) northwest of Piedmont.

DRAINAGE AREA.--122 mi² (316 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to February 1939 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 872.00 ft (265.785 m) above mean sea level, adjustment of 1912. Prior to Sept. 9, 1949, at site 1,000 ft (305 m) downstream at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--35 years, 130 ft³/s (3.682 m³/s).

EXTREMES.--Current year: Maximum discharge, 537 ft³/s (15.2 m³/s) May 11, gage height, 6.76 ft (2.060 m); minimum, 2.0 ft³/s (0.057 m³/s) Sept. 17.

Period of record: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Dec. 4, 1950; maximum gage height, 11.44 ft (3.487 m) Mar. 5, 1963; minimum discharge, 0.1 ft³/s (0.003 m³/s) Sept. 4, 1953.

REMARKS.--Records good. Flow regulated by Piedmont Lake (see station 03125500). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	60	344	281	232	40	130	365	336	61	53	9.8
2	85	98	342	276	358	41	87	389	328	59	52	9.1
3	77	130	338	291	354	44	63	368	332	57	48	8.1
4	71	119	335	387	299	50	106	333	328	54	45	7.1
5	67	109	352	344	291	65	159	326	330	54	41	6.8
6	67	102	423	301	300	73	154	356	262	52	37	6.5
7	63	119	427	281	327	61	190	365	159	48	29	5.9
8	60	235	431	270	363	54	261	365	121	47	20	5.3
9	54	206	359	267	354	47	287	358	114	45	18	5.6
10	51	235	236	264	235	45	312	364	113	50	17	4.0
11	48	252	250	258	111	44	322	363	109	70	16	3.8
12	59	232	268	187	108	48	344	301	107	62	14	4.0
13	67	179	274	91	108	44	362	320	107	57	14	3.8
14	58	199	283	91	126	63	354	356	101	53	20	4.0
15	51	178	329	94	265	178	335	364	94	57	25	4.5
16	51	204	346	117	269	143	323	356	92	57	21	8.4
17	38	306	312	128	236	173	316	356	115	53	18	5.3
18	38	305	302	129	229	158	221	351	208	50	16	6.8
19	44	284	303	144	228	119	168	342	242	47	16	5.9
20	43	335	352	144	223	180	164	356	205	47	19	4.8
21	42	356	347	128	222	210	159	342	190	81	37	4.5
22	40	353	345	188	125	239	155	316	160	100	33	4.8
23	49	341	328	244	47	279	193	197	117	73	27	4.3
24	56	334	311	236	44	285	256	287	109	60	19	4.5
25	53	332	301	220	42	283	267	412	103	67	17	4.3
26	50	359	301	215	43	375	277	335	94	77	16	4.3
27	47	360	306	244	42	477	342	248	85	66	15	17
28	46	358	296	269	41	402	413	239	78	61	13	20
29	50	352	287	263	------	336	332	284	75	60	11	18
30	52	346	284	231	------	321	291	318	66	57	11	24
31	48	------	283	225	------	200	------	329	------	54	10	------
TOTAL	1,724	7,378	9,995	6,808	5,622	5,077	7,343	10,361	4,880	1,836	748	225.2
MEAN	55.6	246	322	220	201	164	245	334	163	59.2	24.1	7.51
MAX	99	360	431	387	363	477	413	412	336	100	53	24
MIN	38	60	236	91	41	40	63	197	66	45	10	3.8

CAL YR 1972 TOTAL 54,572.6 MEAN 149 MAX 660 MIN 9.6
WTR YR 1973 TOTAL 61,997.2 MEAN 170 MAX 477 MIN 3.8

03127000 Stillwater Creek at Tippecanoe, Ohio

LOCATION.--Lat 40°16'13", long 81°17'26", in NW 1/4 sec. 22, T.12 N., R.7 W., Harrison County, on left bank at downstream side of highway bridge at Tippecanoe, 0.4 mi (0.6 km) downstream from Brushy Fork, 3.6 mi (5.8 km) upstream from Weaver Run, 6 mi (10 km) upstream from Laurel Creek, and 9 mi (14 km) south of Dennison.

DRAINAGE AREA.--282 mi^2 (730 km^2).

PERIOD OF RECORD.--October 1938 to current year. Prior to January 1939 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 849.00 ft (258.775 m) above mean sea level, adjustment of 1912. Prior to Feb. 9, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 303 ft^3/s (8.581 m^3/s).

EXTREMES.--Current year: Maximum discharge, 1,370 ft^3/s (38.8 m^3/s) Apr. 29, gage height, 12.28 ft (3.743 m); minimum, 5.0 ft^3/s (0.14 m^3/s) Sept. 27.

Period of record: Maximum discharge, 4,410 ft^3/s (125 m^3/s) Mar. 7, 1945, Mar. 5, 1963; maximum gage height, 17.29 ft (5.270 m) Mar. 5, 1963; minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Oct. 3, 4, 1940.

REMARKS.--Records good. Flow regulated by Clendening Lake on Brushy Fork, 1.9 mi (3.1 km) upstream, and Piedmont Lake, 16 mi (26 km) upstream (see stations 03126500 and 03125500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	85	752	580	541	116	451	768	892	129	61	16
2	115	177	652	571	730	118	362	880	677	118	59	16
3	87	391	634	557	1.070	122	288	1.010	630	108	53	15
4	72	306	618	752	900	143	349	1.060	564	100	46	14
5	63	224	640	728	726	165	655	976	576	93	41	13
6	61	192	733	624	848	249	685	900	548	85	35	13
7	60	183	799	610	824	212	620	858	432	75	31	12
8	55	560	742	583	946	190	668	594	319	67	21	11
9	51	679	1.050	604	745	148	781	660	285	59	18	11
10	45	575	978	662	553	132	936	728	262	58	17	12
11	41	472	702	648	342	122	986	1.030	250	99	17	12
12	47	408	626	554	260	127	828	876	246	122	16	11
13	73	366	673	245	222	122	816	775	246	105	16	11
14	70	498	672	228	231	129	763	806	227	78	18	11
15	60	610	678	233	448	590	652	777	203	69	27	11
16	53	482	751	248	628	562	594	643	191	80	26	10
17	49	560	600	277	514	562	538	540	207	73	23	11
18	37	553	606	282	452	570	482	529	469	57	20	12
19	42	498	638	313	440	438	376	510	518	48	21	12
20	47	554	685	365	426	416	354	555	540	43	21	11
21	48	620	709	312	386	527	338	572	504	87	38	10
22	45	580	697	390	318	566	323	516	383	170	46	9.1
23	47	537	698	529	164	622	346	449	231	149	37	8.1
24	72	507	691	512	161	622	589	521	207	105	28	7.9
25	75	492	673	434	143	496	604	1.100	202	96	22	9.1
26	67	549	648	405	128	522	554	1.020	189	119	21	22
27	62	630	670	432	124	1.030	656	765	171	102	20	7.6
28	60	680	648	575	120	960	1.260	823	160	85	18	25
29	66	722	610	622	------	756	1.320	854	160	76	17	19
30	75	745	589	600	------	698	976	933	144	71	16	24
31	75	------	582	646	------	638	------	975	------	64	16	------
TOTAL	1.947	14.435	21.444	15.121	13.390	12.660	19.150	24.023	10.633	2.790	866	386.8
MEAN	62.8	481	692	488	478	408	638	775	354	90.0	27.9	12.9
MAX	127	745	1.050	752	1.070	1.030	1.320	1.100	892	170	61	25
MIN	37	85	582	228	120	116	288	449	144	43	16	7.6

CAL YR 1972 TOTAL 121.062.0 MEAN 331 MAX 1.570 MIN 17
WTR YR 1973 TOTAL 136.845.8 MEAN 375 MAX 1.320 MIN 7.6

03127500 Stillwater Creek at Uhrichsville, Ohio

LOCATION.--Lat 40°23'10", long 81°20'50", Tuscarawas County, on left bank at concrete dam of Dennison Water Supply Co. at Uhrichsville, 2.2 mi (3.5 km) upstream from Little Stillwater Creek.

DRAINAGE AREA.--367 mi² (951 km²).

PERIOD OF RECORD.--July 1922 to current year.

GAGE.--Water-stage recorder above concrete dam. Datum of gage is 839.37 ft (255.840 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1936, nonrecording gage at site 1.7 mi (2.7 km) upstream at same datum. Auxiliary water-stage recorder below concrete dam at datum 10.00 ft (3.048 m) lower.

AVERAGE DISCHARGE.--51 years, 420 ft³/s (11.89 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 1,600 ft³/s (45.3 m³/s) Apr. 29; maximum gage height, 2.54 ft (0.774 m) Apr. 29 (backwater from Tuscarawas River); no flow Sept. 25, 26, 27.

Period of record: Maximum discharge, 7,650 ft³/s (217 m³/s) Aug. 8, 9, 1935, gage height, 14.2 ft (4.33 m) at former site, 12.8 ft (3.90 m) at present site; no flow at times in 1930, 1932, 1936, 1939-40, 1953, 1973.

Flood in March 1913 reached a stage of about 17.5 ft (5.33 m) at former site, and about 15.5 ft (4.72 m) at present site.

REMARKS.--Records good. Flow regulated by Piedmont Lake, 35 mi (56 km) upstream, and Clendening Lake on Brushy Fork, 22 mi (35 km) upstream, beginning in 1938 (see stations 03125500 and 03126500). Water is diverted from Dennison water supply dam 1.7 mi (2.7 km) upstream from station for municipal supply of cities of Dennison and Uhrichsville; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 853: Drainage area. WSP 1113: 1923-24, 1926-31, 1932(M), 1933-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	123	940	761	860	264	853	1,190	1,010	133	129	7.4
2	174	238	892	743	1,130	258	697	1,090	840	123	126	7.0
3	135	599	835	725	1,500	270	572	1,190	714	112	110	8.0
4	108	524	812	1,050	1,400	295	602	1,290	670	105	78	18
5	93	377	834	1,000	1,170	353	1,050	1,230	628	99	71	9.5
6	88	287	987	940	1,110	528	1,090	1,130	611	90	68	8.6
7	84	259	1,100	860	1,140	520	995	1,090	554	95	62	8.6
8	80	695	1,000	779	1,210	453	952	890	419	81	58	7.6
9	74	1,060	1,300	752	1,180	380	1,060	860	328	74	45	4.8
10	68	899	1,200	797	950	333	1,210	920	291	72	35	2.9
11	61	743	1,000	806	725	307	1,320	1,100	269	80	33	1.6
12	71	611	887	788	552	295	1,240	1,200	254	119	50	1.8
13	89	528	917	520	438	289	1,160	1,020	254	130	27	1.6
14	102	783	940	327	431	295	1,110	940	234	109	31	2.1
15	93	900	940	320	632	900	980	897	208	92	59	2.4
16	83	836	1,020	327	960	1,100	880	814	192	87	61	1.8
17	75	730	970	347	900	1,000	824	669	190	86	51	1.4
18	70	750	870	373	779	1,000	761	627	355	95	45	1.3
19	60	703	860	409	716	960	656	595	537	81	39	1.9
20	61	761	950	490	689	788	584	628	574	74	44	2.2
21	65	841	1,010	460	664	824	544	685	546	80	44	2.1
22	69	812	980	505	616	860	520	632	512	151	60	1.9
23	76	755	960	779	438	910	536	573	323	220	65	1.6
24	87	695	920	806	340	930	788	570	228	185	56	.80
25	104	661	890	707	320	851	900	950	206	147	40	.16
26	101	707	860	624	295	880	842	1,100	203	154	33	0
27	92	799	870	632	277	1,390	940	1,020	177	172	34	2.2
28	85	847	860	806	270	1,410	1,500	964	157	142	31	3.2
29	89	889	815	940	------	1,210	1,600	1,000	159	121	22	6.0
30	94	911	779	860	------	1,090	1,400	983	155	119	10	18
31	103	------	770	880	------	1,030	------	1,040	------	132	8.0	------
TOTAL	2,825	20,323	28,968	21,113	21,692	21,973	28,166	28,887	11,798	3,560	1,625.0	136.46
MEAN	91.1	677	934	681	775	709	939	932	393	115	52.4	4.55
MAX	191	1,060	1,300	1,050	1,500	1,410	1,600	1,290	1,010	220	129	18
MIN	60	123	770	320	270	258	520	570	155	72	8.0	0
(+)	1.79	1.64	1.62	1.72	1.70	1.58	1.36	1.61	1.74	1.80	1.77	1.69

CAL YR 1972 TOTAL 157,457.00 MEAN 430 MAX 1,950 MIN 27 (+) 1.64
WTR YR 1973 TOTAL 191,066.46 MEAN 523 MAX 1,600 MIN 0 (+) 1.69

+ Diversion, in cubic feet per second, for municipal supply of cities of Dennison and Uhrichsville, furnished by Dennison Water Supply Company.

03128500 Little Stillwater Creek below Tappan Dam, at Tappan, Ohio

LOCATION.--Lat 40°21'25", long 81°13'49", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, on right bank 150 ft (46 m) downstream from outlet of lake at Tappan Dam, 1 mi (2 km) west of Tappan, and 2 mi (3 km) upstream from Plum Run.

DRAINAGE AREA.--71.1 mi² (184 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Little Stillwater Creek at Tappan 1938-39.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 861.00 ft (262.433 m) above mean sea level, adjustment of 1912. Prior to Jan. 30, 1939, water-stage recorder at gate house of Tappan Dam at datum 9 ft (3 m) higher. Jan. 30 to Mar. 24, 1939, nonrecording gage and Mar. 25, 1939, to Aug. 6, 1944, water-stage recorder, at site 150 ft (46 m) downstream at present datum.

AVERAGE DISCHARGE.--35 years, 73.5 ft³/s (2.082 m³/s).

EXTREMES.--Current year: Maximum discharge, 458 ft³/s (13.0 m³/s) Mar. 29, 30, Apr. 13, gage height, 6.52 ft (1.987 m); minimum, 1.0 ft³/s (0.028 m³/s) Mar. 2, gage height, 4.28 ft (1.305 m).
Period of record: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Mar. 13, 1939, gage height, 10.00 ft (3.048 m); no flow Sept. 12-15, 18, 19, 21-29, Oct. 13-21, 1939.

REMARKS.--Records good. Flow completely regulated by Tappan Lake (see station 03128000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	301	1.2	1.6	50	9.8	2.4	348	270	28	5.0	3.5
2	13	301	1.1	229	50	4.4	2.4	396	198	20	4.6	3.2
3	12	298	1.1	340	52	2.1	2.0	396	184	11	4.2	3.0
4	10	297	1.1	340	52	2.1	3.7	293	88	13	3.9	2.8
5	11	294	1.2	217	250	2.2	11	86	56	11	3.7	2.7
6	11	294	1.2	1.5	372	2.3	28	67	60	11	3.3	2.8
7	9.7	291	195	1.5	388	2.2	52	67	61	10	3.1	2.6
8	9.1	292	212	24	384	2.2	69	67	60	9.8	2.9	2.4
9	8.2	290	1.9	263	280	2.2	82	67	56	9.3	2.7	2.2
10	7.7	289	1.9	316	103	2.2	96	67	55	9.8	2.6	2.1
11	6.9	287	220	98	103	2.1	181	206	50	9.9	2.6	2.3
12	8.0	284	348	1.3	226	2.2	356	250	45	8.9	3.0	2.3
13	8.3	285	349	1.3	280	2.2	405	13	41	7.9	2.9	2.3
14	8.6	285	344	1.3	98	2.2	344	28	37	6.8	3.1	2.2
15	7.8	284	226	1.3	7.8	2.2	336	49	35	6.4	3.4	2.2
16	7.8	195	1.8	1.3	7.8	2.3	332	55	35	5.5	3.4	2.2
17	7.3	40	1.7	1.3	7.8	2.3	332	61	39	4.6	3.3	2.2
18	6.8	1.1	235	1.3	7.8	2.3	198	65	60	4.2	3.6	2.2
19	6.8	1.1	340	1.4	7.8	2.3	41	67	61	3.7	4.1	2.2
20	6.5	1.7	340	1.4	223	2.3	1.6	74	55	3.7	4.3	2.2
21	6.4	15	336	1.4	368	2.3	1.6	78	49	4.4	6.8	2.2
22	6.2	24	155	1.4	380	2.3	1.6	78	46	4.8	6.3	2.2
23	6.2	24	1.6	187	217	2.3	2.4	80	40	4.6	5.9	2.2
24	159	24	1.6	320	23	2.3	155	179	36	4.2	5.6	2.2
25	263	24	1.6	332	9.8	2.4	267	244	36	5.3	5.2	2.2
26	305	24	1.6	187	9.8	65	283	244	34	6.1	5.0	2.2
27	309	155	1.6	1.2	9.8	250	179	244	33	6.3	4.8	2.0
28	307	305	1.6	1.2	9.8	376	128	244	30	6.1	4.6	2.0
29	303	320	1.6	1.3	------	436	135	302	30	5.5	4.4	2.0
30	303	98	1.6	1.3	------	414	244	336	29	5.3	4.1	2.0
31	301	------	1.6	23	------	121	------	324	------	4.8	3.9	------
TOTAL	2,448.3	5,623.9	3,327.6	2,900.3	3,977.2	1,727.7	4,271.7	5,065	1,910	252.1	126.3	70.8
MEAN	79.0	187	107	93.6	142	55.7	142	163	63.7	8.13	4.07	2.36
MAX	309	320	348	340	388	436	405	396	270	28	6.8	3.5
MIN	6.2	1.1	1.1	1.2	7.8	2.1	1.6	13	29	3.7	2.6	2.0

CAL YR 1972 TOTAL 29,410.3 MEAN 80.4 MAX 489 MIN 1.1
WTR YR 1973 TOTAL 31,700.9 MEAN 86.9 MAX 436 MIN 1.1

03129000 Tuscarawas River at Newcomerstown, Ohio

LOCATION.--Lat 40°15'41", long 81°36'33", in T.5 N., R.3 W., Tuscarawas County, on right bank 150 ft (46 m) upstream from highway bridge 0.2 mi (0.3 km) south of Newcomerstown, 2 mi (3 km) upstream from Buckhorn Creek, and 4 mi (6 km) downstream from Dunlap Creek.

DRAINAGE AREA.--2,443 mi² (6,327 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft (237.744 m) above mean sea level, adjustment of 1912. Prior to Sept. 28, 1925, and July 18, 1935, to Feb. 13, 1939, nonrecording gage, Sept. 28, 1925, to July 17, 1935, water-stage recorder at site 1.5 mi (2.4 km) upstream at datum 5.03 ft (1.533 m) higher prior to Oct. 1, 1934, and 0.03 ft (0.009 m) higher Oct. 1, 1934, to Feb. 13, 1939.

AVERAGE DISCHARGE.--52 years, 2,410 ft³/s (68.25 m³/s).

EXTREMES.--Current year: Maximum discharge, 9,340 ft³/s (265 m³/s) Mar. 17, gage height, 7.76 ft (2.365 m); minimum, 372 ft³/s (10.5 m³/s) Sept. 22.

Period of record: Maximum discharge, 46,800 ft³/s (1,330 m³/s) Jan. 26, 1937, gage height, 20.65 ft (6.294 m), site and datum then in use; minimum, 120 ft³/s (3.40 m³/s) Aug. 7, 1930; minimum daily, 170 ft³/s (4.81 m³/s) Aug. 6, 1930.

Flood in March 1913 reached a stage of about 21.5 ft (6.55 m), at site and datum used prior to Oct. 1, 1934, discharge, 83,000 ft³/s (2,350 m³/s) computed by Corps of Engineers.

REMARKS.--Records good. Diversion from basin at Portage Lakes (see REMARKS for stations 03116000 and 03117000). Flow regulated by eight flood-control reservoirs at points 40 mi (64 km) to 64 mi (103 km) upstream (see pp. 80, 81). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1929(M). WSP 873: 1935. WSP 1907: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.230	1.250	3.030	3.310	3.590	2.280	5.190	6.990	5.300	1.340	925	759
2	3.870	1.720	2.930	3.240	4.630	2.400	4.650	5.890	4.720	1.170	897	683
3	3.700	4.800	2.800	3.230	7.670	2.810	4.470	5.410	3.850	1.090	890	558
4	3.050	5.550	2.680	4.240	8.590	3.150	4.200	5.220	3.560	1.040	865	498
5	2.530	4.800	2.990	6.260	7.710	3.450	5.500	4.740	3.570	1.040	751	495
6	2.040	3.260	4.010	6.210	6.570	4.390	6.970	4.060	3.600	1.070	669	531
7	1.630	2.600	6.330	4.840	6.260	5.180	6.860	3.620	3.700	1.040	642	799
8	1.400	4.350	7.570	3.820	6.170	4.840	5.900	3.370	3.340	963	625	724
9	1.230	6.330	8.180	3.400	5.860	4.090	5.490	3.480	2.810	893	599	606
10	1.070	6.360	7.700	2.900	4.990	3.530	5.830	3.830	2.430	912	507	524
11	960	5.790	7.040	2.600	3.990	3.380	6.590	5.780	2.130	1.220	516	483
12	980	4.840	6.260	2.400	3.360	3.510	7.010	7.010	1.960	1.240	888	479
13	1.160	3.690	5.720	2.200	3.120	3.640	6.580	6.490	1.950	1.060	916	457
14	1.390	4.610	6.450	1.980	3.020	3.370	5.700	5.240	2.020	924	919	450
15	1.230	7.100	6.660	1.840	3.310	6.190	4.950	4.470	1.740	832	1.840	457
16	1.040	7.520	6.400	1.770	4.790	8.830	4.410	3.880	1.580	794	1.670	455
17	960	7.070	5.900	1.760	4.670	8.940	4.020	3.550	1.740	767	1.290	416
18	930	6.270	5.280	1.790	3.870	8.600	4.670	3.260	3.020	746	1.110	407
19	890	5.010	5.030	1.920	3.500	8.550	5.810	3.050	3.610	701	976	430
20	860	4.310	5.060	2.210	3.370	8.610	5.710	3.030	2.920	684	941	423
21	833	4.700	5.760	2.290	3.500	8.070	4.700	3.360	2.610	756	883	405
22	815	4.460	6.350	2.240	3.510	7.650	3.900	3.330	2.340	1.660	1.330	390
23	806	3.830	6.200	2.960	3.320	7.510	3.580	2.930	1.940	1.490	1.300	599
24	833	3.370	5.670	3.880	2.810	7.260	3.950	3.650	1.600	1.100	1.040	1.060
25	1.150	2.960	5.000	3.650	2.480	6.970	4.190	6.440	1.520	958	879	837
26	1.240	2.860	4.460	3.170	2.340	5.860	3.840	7.590	2.010	981	765	623
27	1.270	3.070	4.320	2.850	2.320	6.800	3.790	7.170	1.600	1.830	697	521
28	1.230	3.490	4.170	3.120	2.270	6.650	6.000	6.580	1.400	2.520	669	476
29	1.170	3.560	3.730	4.220	------	5.810	7.870	6.160	1.550	1.640	621	481
30	1.150	3.440	3.400	4.620	------	5.440	8.040	5.830	1.540	1.150	587	814
31	1.210	------	3.300	3.950	------	5.780	------	5.680	------	958	571	------
TOTAL	45.857	132.970	160.380	98.870	121.590	173.530	160.370	151.090	77.760	34.631	27.958	16.840
MEAN	1.479	4.432	5.174	3.189	4.343	5.598	5.346	4.874	2.592	1.117	902	561
MAX	3.870	7.520	8.180	6.260	8.590	8.940	8.040	7.590	5.300	2.520	1.840	1.060
MIN	806	1.250	2.680	1.760	2.270	2.280	3.580	2.930	1.400	684	571	390

CAL YR 1972 TOTAL 1.079.112 MEAN 2.948 MAX 9.470 MIN 509
WTR YR 1973 TOTAL 1.201.848 MEAN 3.293 MAX 8.940 MIN 390

03130000 Black Fork below Charles Mill Dam, near Mifflin, Ohio

LOCATION.--Lat 40°44'16", long 82°21'48", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, on left bank 700 ft (213 m) downstream from Charles Mill Dam, 2.5 mi (4.0 km) south of Mifflin, and 4 mi (6 km) upstream from Rocky Fork.

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1940, published as Black Fork near Mifflin. Monthly discharge only for October 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 981.56 ft (299.179 m) above mean sea level, adjustment of 1912. Dec. 3, 1941, to Dec. 5, 1944, water-stage recorder at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--35 years, 191 ft³/s (5.409 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,090 ft³/s (30.9 m³/s) Mar. 22, 23, gage height, 5.26 ft (1.603 m); minimum, 14 ft³/s (0.40 m³/s) Mar. 1.

Period of record: Maximum discharge, 2,800 ft³/s (79.3 m³/s) Mar. 13, 1964; maximum gage height, 8.45 ft (2.576 m) Mar. 14, 1939; minimum discharge, 0.2 ft³/s (0.006 m³/s) May 21, 1940; minimum daily discharge, 0.9 ft³/s (0.025 m³/s) Apr. 21, 1940.

Flood in March 1913 reached a discharge of 11,700 ft³/s (331 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Charles Mill Lake (see station 03129500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	511	107	363	430	349	94	854	516	728	291	170	47
2	528	139	310	443	410	44	669	467	598	311	98	46
3	722	283	279	467	518	62	520	405	471	324	66	43
4	815	385	341	530	622	141	436	333	380	291	63	39
5	812	458	356	568	706	333	421	279	312	297	60	36
6	800	473	370	590	725	445	447	234	308	318	57	35
7	786	481	514	571	666	458	501	202	324	347	55	30
8	759	299	620	502	587	447	537	215	384	344	51	27
9	730	495	690	418	486	407	494	243	490	296	49	27
10	555	677	724	347	398	370	481	224	615	244	47	26
11	375	777	682	292	329	402	480	228	616	235	48	25
12	294	777	617	248	279	516	494	233	497	162	65	25
13	237	776	606	222	243	655	494	240	382	115	69	22
14	210	95	638	209	221	606	451	229	313	107	80	23
15	187	483	717	202	215	31	388	208	260	99	116	22
16	164	832	773	198	206	416	324	184	222	95	196	22
17	148	842	752	194	196	516	290	173	230	90	294	21
18	129	849	673	193	189	862	257	114	255	82	354	21
19	122	850	580	189	183	876	233	86	271	76	316	18
20	113	846	517	185	177	876	216	97	278	75	249	18
21	103	834	490	183	175	871	203	104	708	114	199	21
22	97	826	515	183	173	968	190	115	819	192	150	31
23	98	817	574	184	169	1,080	184	129	840	268	117	30
24	97	802	634	185	167	1,060	173	232	843	286	97	31
25	95	795	671	184	165	1,050	159	306	825	294	86	29
26	93	778	682	185	160	1,030	148	417	753	307	73	28
27	92	750	646	189	159	1,020	178	462	575	311	66	27
28	91	646	590	202	155	1,010	265	478	436	313	61	27
29	94	502	524	245	------	974	380	685	327	292	54	32
30	92	420	463	304	------	954	478	837	276	246	50	33
31	95	------	433	330	------	930	------	822	------	202	48	------
TOTAL	10,042	18,094	17,344	9,372	9,028	19,504	11,337	9,497	14,336	7,024	3,504	862
MEAN	324	603	559	302	322	629	378	306	478	227	113	28.7
MAX	815	850	773	590	725	1,080	854	837	843	347	354	47
MIN	91	95	279	183	155	31	148	86	222	75	47	18

CAL YR 1972 TOTAL 115,255 MEAN 315 MAX 1,210 MIN 26
WTR YR 1973 TOTAL 129,944 MEAN 356 MAX 1,080 MIN 18

03130500 Touby Run at Mansfield, Ohio

LOCATION.--Lat 40°45'53", long 82°32'43", in NW 1/4 sec. 20, T.21 N., R.18 W., Richland County, on left bank 100 ft (30 m) downstream from West 4th Street Bridge at west edge of Mansfield, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--5.44 mi^2 (14.1 km^2).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 1,216.42 ft (370.765 m) above mean sea level, adjustment of 1912 (levels by city of Mansfield).

AVERAGE DISCHARGE.--27 years, 4.97 ft^3/s (0.141 m^3/s), 12.41 in/yr (315.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 296 ft^3/s (8.38 m^3/s) Mar. 14, gage height, 2.09 ft (0.637 m); minimum, 0.50 ft^3/s (0.014 m^3/s) several days in September.

Period of record: Maximum discharge, 965 ft^3/s (27.3 m^3/s) June 6, 1947, gage height, 4.17 ft (1.271 m), from rating curve extended above 160 ft^3/s (4.53 m^3/s) on the basis of slope-area measurements at gage heights 2.49 ft (0.759 m) and 4.17 ft (1.271 m) and computation of flow over dam at gage height 3.94 ft (1.201 m); no flow for part of Sept. 4, 1965, Nov. 10, 1967.

REMARKS.--Records good except periods of no gage-height record, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	6.0	4.4	6.8	13	6.6	5.0	3.9	2.2	2.8	1.2	.62
2	3.4	20	5.0	4.2	44	7.8	8.6	5.0	2.0	2.4	.76	.62
3	2.5	10	5.5	18	16	9.7	4.9	4.1	1.9	2.0	.76	.62
4	3.4	5.0	9.7	24	8.1	7.8	24	3.4	8.0	1.8	.76	.62
5	2.1	3.5	9.0	7.3	5.6	12	21	3.2	4.4	2.5	.76	.76
6	2.5	2.9	37	5.0	5.1	7.2	8.3	2.9	4.4	2.2	.93	.76
7	1.5	24	8.4	4.2	4.1	6.1	5.6	2.7	4.8	1.7	.93	.76
8	1.2	34	9.7	3.6	3.5	4.4	10	2.5	3.4	1.5	.93	.76
9	1.2	11	11	3.2	3.2	6.1	17	2.3	2.8	1.4	.76	1.2
10	1.2	9.0	9.7	4.0	2.9	14	20	9.7	2.4	5.5	.76	.76
11	1.2	7.0	5.0	2.8	2.6	20	14	11	1.9	2.0	5.5	.76
12	9.7	6.0	18	2.2	2.3	8.4	9.4	5.5	8.5	1.5	7.2	.76
13	2.1	7.0	36	1.8	2.1	5.0	5.8	2.8	5.0	1.3	.76	.62
14	1.5	44	8.4	1.6	5.0	72	4.1	2.5	3.0	1.2	22	.62
15	1.5	14	6.6	1.4	7.2	27	3.2	2.8	2.4	1.1	5.5	.76
16	2.9	9.0	9.0	1.3	5.0	23	4.1	3.4	2.8	1.0	.93	.62
17	1.5	7.0	20	1.2	4.0	33	6.4	3.9	8.0	.95	.93	.76
18	2.5	5.5	14	1.1	3.4	15	4.9	2.5	11	.95	.76	.76
19	1.8	7.0	8.5	1.0	2.9	14	3.5	2.2	5.0	.90	.62	.62
20	1.5	10	19	.95	2.4	13	4.5	2.8	3.6	.90	1.2	.62
21	1.5	7.0	18	.91	1.8	9.7	2.6	2.2	2.8	2.0	.76	.76
22	1.6	5.5	16	15	1.6	7.3	3.1	2.0	2.2	1.4	.62	12
23	1.8	5.0	10	6.6	1.5	8.8	3.8	2.0	1.9	1.0	.62	2.1
24	2.3	4.4	7.9	2.6	1.5	9.4	2.5	2.3	3.0	.93	.76	.62
25	1.7	4.4	6.0	2.4	1.5	13	2.1	2.6	2.6	1.2	.76	.50
26	1.5	7.2	7.0	2.2	1.6	12	1.9	2.4	2.2	2.1	.76	.62
27	1.5	8.4	5.5	14	1.8	6.6	46	2.0	1.9	.93	.76	.62
28	1.5	7.2	4.4	22	3.4	4.6	19	2.6	4.8	.93	.62	.50
29	1.9	4.4	4.1	9.0	------	9.2	6.3	2.2	4.2	.76	.76	10
30	2.0	4.4	8.2	6.0	------	11	5.2	2.4	3.5	.76	.76	1.0
31	1.7	------	15	4.3	------	6.0	------	3.0	------	.76	.76	------
TOTAL	72.0	299.8	356.0	180.66	157.1	409.7	276.8	104.8	116.6	48.37	61.89	43.10
MEAN	2.32	9.99	11.5	5.83	5.61	13.2	9.23	3.38	3.89	1.56	2.00	1.44
MAX	9.7	44	37	24	44	72	46	11	11	5.5	22	12
MIN	1.2	2.9	4.1	.91	1.5	4.4	1.9	2.0	1.9	.76	.62	.50
CFSM	.43	1.84	2.11	1.07	1.03	2.43	1.70	.62	.72	.29	.37	.26
IN.	.49	2.05	2.43	1.24	1.07	2.80	1.89	.72	.80	.33	.42	.29

CAL YR 1972 TOTAL 2,633.62 MEAN 7.20 MAX 184 MIN .28 CFSM 1.32 IN 19.01
WTR YR 1973 TOTAL 2,126.82 MEAN 5.83 MAX 72 MIN .50 CFSM 1.07 IN 14.54

PEAK DISCHARGE (BASE, 200 FT^3/S).--Mar. 14 (1845) 296 FT^3/S (2.09 ft).

NOTE.--No gage-height record Oct. 21 to Nov. 23, May 4-8, May 19 to July 23.

03131500 Black Fork at Loudonville, Ohio

LOCATION.--Lat 40°38'09", long 82°14'22", in NW 1/4 sec. 1, T.19 N., R.16 W., Ashland County, on right bank at upstream side of bridge on State Highway 3 at Loudonville, 1.5 mi (2.4 km) downstream from Big Run.

DRAINAGE AREA.--349 mi^2 (904 km^2).

PERIOD OF RECORD.--May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 929.16 ft (283.208 m) above mean sea level. Prior to Oct. 23, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 334 ft^3/s (9.459 m^3/s).

EXTREMES.--Current year: Maximum discharge, 3,040 ft^3/s (86.1 m^3/s) Mar. 15, gage height, 10.09 ft (3.075 m); minimum, 91 ft^3/s (2.58 m^3/s) Sept. 21, 22.

Period of record: Maximum discharge, 8,460 ft^3/s (240 m^3/s) July 5, 1969, gage height, 14.11 ft (4.301 m), from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 24 ft^3/s (0.68 m^3/s) Jan. 12, 1964.

REMARKS.--Records good. Flow regulated since 1936 by Charles Mill Lake, 16 mi (26 km) upstream from station (see station 03129500). Records include diversion from Clear Fork Reservoir which enters the Black Fork drainage as sewage effluent from the city of Mansfield (see REMARKS for station 03132000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1935. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	856	303	561	677	567	318	1,110	721	896	453	304	134
2	732	943	506	618	1,090	270	934	686	769	447	244	129
3	806	720	471	639	1,020	301	772	647	664	562	162	124
4	937	624	503	1,150	879	366	738	556	617	537	159	116
5	949	651	596	836	984	579	955	485	555	512	151	120
6	924	645	1,080	767	927	718	753	421	627	481	144	117
7	906	741	876	718	885	693	741	379	599	496	146	112
8	865	1,080	856	654	819	685	826	400	577	500	141	108
9	828	872	975	574	705	645	783	491	633	450	139	106
10	713	856	1,000	494	599	728	1,000	490	729	397	138	108
11	527	1,010	902	432	516	789	892	775	760	394	135	106
12	509	955	857	387	447	873	825	514	670	324	290	104
13	413	955	1,290	354	413	880	774	476	586	231	180	102
14	354	1,530	939	336	404	1,280	712	441	484	219	266	101
15	324	884	925	332	482	2,220	635	419	422	207	538	103
16	312	1,130	948	330	413	836	560	378	397	192	342	99
17	294	1,080	923	330	373	1,420	541	377	586	192	406	94
18	267	1,050	850	338	352	1,460	517	323	562	180	481	101
19	273	1,050	777	360	350	1,340	464	252	493	172	460	98
20	255	1,180	843	344	360	1,310	444	327	1,340	177	392	96
21	240	1,090	861	314	355	1,280	420	288	946	485	367	95
22	225	1,030	890	477	347	1,230	388	285	990	394	285	95
23	264	998	854	471	344	1,370	398	312	996	386	240	236
24	258	962	858	376	335	1,370	377	552	1,100	417	212	118
25	234	945	861	351	327	1,350	345	531	1,010	445	192	112
26	226	945	870	350	336	1,410	329	816	940	492	174	109
27	222	933	847	480	329	1,320	491	682	791	482	160	106
28	228	879	779	609	324	1,250	950	661	667	446	155	107
29	243	708	709	659	------	1,220	649	760	695	423	146	124
30	231	618	675	525	------	1,250	691	996	462	378	139	184
31	225	------	687	527	------	1,180	------	1,020	------	333	138	------
TOTAL	14,642	27,365	25,569	15,809	15,202	31,941	20,014	16,461	21,563	11,804	7,426	3,466
MEAN	472	912	825	510	543	1,030	667	531	719	381	240	116
MAX	949	1,530	1,290	1,150	1,090	2,220	1,110	1,020	1,340	562	538	236
MIN	222	303	471	314	324	270	329	252	397	172	135	94

CAL YR 1972 TOTAL 198,102 MEAN 541 MAX 2,270 MIN 102
WTR YR 1973 TOTAL 211,262 MEAN 579 MAX 2,220 MIN 94

03132000 Clear Fork at Butler, Ohio

LOCATION.--Lat 40°35'37", long 82°25'20", in NE 1/4 sec.20, T.21 N., R.17 W., Richland County, on left bank at downstream side of bridge on State Highway 95, 0.3 mi (0.5 km) northeast of Butler.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--October 1944 to current year. Prior to June 1945 monthly dishcarge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,057.20 ft (322.234 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 141 ft³/s (3.993 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,710 ft³/s (76.7 m³/s) Mar. 15, gage height, 7.01 ft (2.137 m); minimum, 30 ft³/s (0.85 m³/s) Sept. 27, 28.

Period of record: Maximum discharge, 14,300 ft³/s (405 m³/s) Jan. 21, 1959, gage height, 9.43 ft (2.874 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of computed reservoir inflow; minimum, 12 ft³/s (0.34 m³/s) Sept. 12, 18, 1949.

REMARKS.--Records good. Flow regulated by Clear Fork Reservoir, capacity, 10,740 acre-ft (13.2 hm³), 16 mi (26 km) upstream from station since 1949. Water diverted from Clear Fork Reservoir for municipal supply of city of Mansfield since 1953; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1385: 1951-54. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	98	154	285	184	100	220	203	160	133	59	36
2	187	992	148	215	665	152	208	182	120	107	57	36
3	131	510	182	183	647	215	205	198	100	168	55	35
4	104	333	177	653	456	236	256	186	95	306	53	35
5	97	222	210	375	306	270	502	157	140	263	50	35
6	88	166	670	265	246	253	359	131	250	179	49	35
7	87	255	483	193	227	208	261	113	180	129	48	35
8	83	924	351	164	210	182	253	117	136	104	48	34
9	85	594	402	142	180	159	258	140	107	88	48	35
10	67	378	393	129	146	217	449	142	93	82	49	36
11	62	303	273	115	133	285	440	549	79	131	49	35
12	87	224	234	102	117	369	359	396	74	87	85	35
13	97	196	723	95	113	260	306	253	117	72	63	34
14	95	930	477	93	119	522	234	186	95	70	97	34
15	73	668	342	93	161	1,460	198	159	77	70	222	34
16	71	441	256	93	150	801	177	140	87	65	76	34
17	73	303	208	93	127	876	182	133	136	61	60	33
18	71	236	173	97	115	710	196	125	113	60	53	34
19	68	215	166	107	111	495	182	115	189	59	49	33
20	65	363	294	106	111	381	170	150	789	60	49	33
21	64	265	393	91	111	345	163	140	399	150	48	32
22	61	229	462	187	111	291	153	120	232	129	45	36
23	73	203	396	217	104	251	163	110	157	85	44	70
24	93	180	468	159	98	270	159	400	142	72	43	40
25	95	166	263	131	93	276	136	300	127	79	41	38
26	73	175	236	127	98	348	125	200	104	107	41	36
27	70	191	222	236	97	291	196	160	106	98	39	36
28	68	191	196	414	91	229	587	130	131	74	38	34
29	73	168	173	384	------	210	389	120	297	70	38	38
30	77	152	189	246	------	285	251	180	186	61	37	60
31	71	------	259	191	------	246	------	240	------	57	36	------
TOTAL	2,803	10,271	9,573	5,981	5,327	11,193	7,737	5,875	5,018	3,276	1,769	1,111
MEAN	90.4	342	309	193	190	361	258	190	167	106	57.1	37.0
MAX	294	992	723	653	665	1,460	587	549	789	306	222	70
MIN	61	98	148	91	91	100	125	110	74	57	36	32
(+)	17.4	17.3	17.5	17.7	17.4	17.1	17.2	16.6	13.3	11.5	16.1	17.5

CAL YR 1972 TOTAL 75,027 MEAN 205 MAX 2,670 MIN 44 (+) 16.9
WTR YR 1973 TOTAL 69,934 MEAN 192 MAX 1,460 MIN 32 (+) 16.4

+ Diversion, in cubic feet per second, from Clear Fork Reservoir for municipal supply; furnished by city of Mansfield.

03133500 Clear Fork below Pleasant Hill Dam, near Perrysville, Ohio

LOCATION.--Lat 40°37'13", long 82°19'28", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, on right bank 0.2 mi (0.3 km) downstream from Pleasant Hill Dam, 2.8 mi (4.5 km) south of Perrysville, and 4.7 mi (7.6 km) upstream from the confluence of Clear Fork and Black Fork.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--October 1938 to current year. Published as Clear Fork near Perrysville prior to 1940. Monthly discharge only for October 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 967.00 ft (294.741 m) above mean sea level, adjustment of 1912. Prior to May 1, 1947, water-stage recorder at site 0.5 mi (0.8 km) downstream at datum 4.88 ft (1.487 m) lower.

AVERAGE DISCHARGE.--35 years, 192 ft³/s (5.437 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,040 ft³/s (29.5 m³/s) Mar. 20, gage height, 3.35 ft (1.021 m); minimum, 1.7 ft³/s (0.048 m³/s) Jan. 5.

Period of record: Maximum discharge, 2,340 ft³/s (66.3 m³/s) Jan. 23, 1959, gage height, 4.89 ft (1.490 m); minimum, 0.3 ft³/s (0.008 m³/s) Sept. 24, 1953, Jan. 25, 26, 1972; minimum daily, 0.6 ft³/s (0.017 m³/s) Nov. 2, 4, 1938.

REMARKS.--Records good. Flow regulated by Pleasant Hill Lake (see station 03133000). See REMARKS for station 03132000 for diversion by city of Mansfield. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	462	406	244	328	466	94	367	470	208	220	94	50
2	450	382	232	378	470	30	342	402	185	185	90	48
3	367	311	235	300	482	30	286	363	163	180	83	47
4	265	145	253	478	495	31	259	335	170	265	77	46
5	208	147	318	550	495	31	426	300	183	325	73	45
6	178	530	462	744	490	32	462	259	217	293	68	45
7	156	660	575	505	486	33	458	226	238	235	65	41
8	138	470	535	265	482	34	438	217	229	190	62	39
9	126	478	363	190	478	33	418	247	203	154	61	39
10	112	482	370	161	386	33	462	253	179	134	60	40
11	101	482	530	178	293	128	482	458	152	133	60	40
12	107	482	630	214	205	183	486	495	134	128	82	39
13	304	702	630	185	208	36	490	490	134	114	91	37
14	304	615	635	163	208	38	486	478	134	103	96	38
15	290	762	635	138	211	356	474	426	122	100	173	38
16	290	926	630	132	211	525	434	335	124	93	170	38
17	318	905	625	138	211	560	363	283	168	85	134	37
18	314	891	610	175	180	580	353	247	276	79	112	37
19	346	870	434	195	156	590	332	223	238	76	96	36
20	262	858	346	195	156	846	311	223	454	74	90	35
21	145	840	525	166	158	1,010	293	223	490	114	90	35
22	143	816	630	235	158	975	276	203	486	152	77	37
23	143	792	630	311	158	933	272	193	466	138	70	42
24	370	565	535	311	158	738	272	269	398	120	67	41
25	458	356	458	223	158	486	250	286	297	114	64	39
26	454	356	390	163	158	454	229	259	229	132	61	38
27	328	462	363	163	158	478	244	232	188	163	60	38
28	138	349	314	360	158	434	454	220	168	147	57	37
29	138	262	265	478	------	382	490	205	223	128	56	41
30	339	262	265	478	------	382	486	198	250	110	53	44
31	438	------	265	474	------	386	------	208	------	100	51	------
TOTAL	8,192	16,564	13,932	8,974	8,033	10,881	11,395	9,226	7,105	4,584	2,543	1,207
MEAN	264	552	449	289	287	351	380	298	237	148	82.0	40.2
MAX	462	926	635	744	495	1,010	490	495	490	325	173	50
MIN	101	145	232	132	156	30	229	193	122	74	51	35

CAL YR 1972 TOTAL 110,811 MEAN 303 MAX 1,380 MIN 32
WTR YR 1973 TOTAL 102,641 MEAN 281 MAX 1,010 MIN 30

03135000 Lake Fork below Mohicanville Dam, near Mohicanville, Ohio

LOCATION.--Lat 40°43'24", long 82°09'18", in sec. 3, T.20 N., R.15 W., Ashland County, on right bank 800 ft (244 m) downstream from Mohicanville Dam, 2 mi (3 km) east of Mohicanville, and 2.4 mi (3.9 km) downstream from the confluence of Jerome and Muddy Forks.

DRAINAGE AREA.--271 mi^2 (702 km^2).

PERIOD OF RECORD.--October 1938 to current year. Published as Lake Fork near Mohicanville prior to 1940.

GAGE.--Water-stage recorder. Datum of gage is 930.00 ft (283.464 m) above mean sea level, adjustment of 1912. Prior to July 25, 1949, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--35 years, 228 ft^3/s (6.457 m^3/s).

EXTREMES.--Current year: Maximum discharge, 1,550 ft^3/s (43.9 m^3/s) Mar. 14, gage height, 8.34 ft (2.542 m); minimum, 5.8 ft^3/s (0.16 m^3/s) July 6.
Period of record: Maximum discharge, 5,490 ft^3/s (155 m^3/s) July 5, 1969, gage height, 14.32 ft (4.365 m); minimum daily discharge, 1 ft^3/s (0.028 m^3/s) June 10, 1947, Jan. 25, 1959.

REMARKS.--Records good. Flow regulated by Mohicanville Reservoir (see station 03134500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.050	198	255	437	326	260	435	425	391	114	53	98
2	1.050	803	248	295	1.160	800	378	322	262	98	51	50
3	1.020	1.020	265	242	1.330	912	344	246	211	120	45	34
4	1.000	932	286	1.120	954	747	399	242	235	119	42	30
5	970	587	412	896	628	769	1.080	207	248	162	38	31
6	928	425	760	493	505	709	739	176	722	120	36	66
7	563	431	1.030	330	449	543	495	158	595	95	35	34
8	383	1.040	999	257	401	425	498	166	334	71	34	29
9	281	1.100	838	224	336	324	509	249	213	63	35	28
10	196	1.040	715	216	255	690	882	227	160	92	33	30
11	154	943	517	200	210	972	722	461	133	150	37	29
12	269	718	446	180	190	868	514	355	117	91	108	27
13	492	503	1.070	170	180	517	391	227	152	57	55	25
14	262	1.040	1.040	160	191	672	312	181	122	57	53	26
15	187	1.160	899	154	372	1.390	265	166	97	52	535	24
16	158	1.180	521	145	311	1.220	237	152	115	51	226	27
17	144	1.150	410	148	270	1.110	228	154	456	44	97	25
18	121	1.100	343	154	230	1.170	264	142	506	45	68	27
19	129	1.030	310	183	200	1.170	235	129	281	43	55	29
20	146	1.000	535	178	208	1.150	216	158	912	45	48	28
21	140	985	833	134	201	1.140	201	148	718	391	54	27
22	125	875	1.000	278	187	1.250	191	125	342	192	47	28
23	148	624	916	476	189	1.300	189	185	213	102	40	75
24	216	478	717	306	174	1.250	181	781	194	78	39	40
25	174	391	567	213	162	1.250	158	462	197	81	36	31
26	140	375	486	206	176	1.250	148	935	142	94	33	28
27	125	414	459	344	164	1.210	293	901	118	124	30	26
28	118	409	370	768	166	905	909	856	136	71	30	27
29	142	317	309	866	------	605	920	562	302	57	29	30
30	196	262	339	452	------	602	649	577	172	52	28	63
31	160	------	437	300	------	520	------	633	------	50	38	------
TOTAL	11.187	22.530	18.332	10.525	10.125	27.770	12.956	10.748	8.786	2.973	2.088	1.076
MEAN	361	751	591	340	362	896	432	347	293	95.9	67.4	35.9
MAX	1.050	1.180	1.070	1.120	1.330	1.380	1.080	935	912	391	535	98
MIN	118	198	248	134	162	260	148	125	97	43	28	25

CAL YR 1972 TOTAL 130.575 MEAN 357 MAX 1.430 MIN 29
WTR YR 1973 TOTAL 134.096 MEAN 381 MAX 1.380 MIN 25

03136000 Mohican River at Greer, Ohio

LOCATION.--Lat 40°30'53", long 82°11'44", in NW 1/4 sec. 10, T.8 N., R.10 W., Knox County, on left bank 3,000 ft (914 m) downstream from bridge on State Highway 514 at Greer, 5 mi (8 km) upstream from Negro Run, and 7 mi (11 km) downstream from Lake Fork.

DRAINAGE AREA.--948 mi² (2,455 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 872.91 ft (266.063 m) above mean sea level, adjustment of 1912. Prior to July 22, 1931, nonrecording gage at site 3,000 ft (914 m) upstream at same datum.

AVERAGE DISCHARGE.--52 years, 884 ft³/s (25.03 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,140 ft³/s (174 m³/s) Nov. 14, gage height, 6.10 ft (1.859 m); minimum, 181 ft³/s (5.13 m³/s) Sept. 18.
Period of record: Maximum discharge, 20,500 ft³/s (581 m³/s) July 5, 1969, gage height, 14.59 ft (4.447 m); minimum, 50 ft³/s (1.42 m³/s) (estimated) Jan. 2, 1935.
Flood in March 1913 reached a stage of 27.0 ft (8.23 m), discharge, 55,000 ft³/s (1,560 m³/s) (estimated).

REMARKS.--Records good. Flow regulated by Charles Mill Lake on Black Fork, 30 mi (48 km) upstream, Pleasant Hill Lake on Clear Fork, 17 mi (27 km) upstream, and Mohicanville Reservoir on Lake Fork, 19 mi (31 km) upstream, beginning August 1936. (See stations 03129500, 03133000, and 03134500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 623: 1924(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,110	1,190	1,430	1,810	1,690	959	2,050	1,760	1,570	843	525	290
2	2,720	2,900	1,330	1,660	2,980	1,200	1,800	1,570	1,310	805	480	285
3	2,530	2,950	1,290	1,530	3,570	1,410	1,570	1,450	1,140	883	355	246
4	2,530	2,250	1,330	3,070	2,940	1,500	1,530	1,310	1,100	971	336	225
5	2,470	1,910	1,630	2,950	2,500	1,600	2,460	1,170	1,090	1,040	316	225
6	2,370	1,860	2,700	2,530	2,320	1,900	2,230	1,040	1,510	942	297	252
7	2,050	2,240	3,100	2,070	2,210	1,690	1,940	949	1,590	894	290	230
8	1,750	3,360	2,960	1,720	2,050	1,570	1,930	894	1,310	828	279	211
9	1,570	3,070	2,800	1,500	1,890	1,370	1,980	1,090	1,160	751	274	206
10	1,360	2,820	2,680	1,410	1,610	1,610	2,430	1,110	1,130	685	290	206
11	1,060	2,870	2,480	1,200	1,360	2,200	2,360	1,960	1,100	762	274	206
12	1,030	2,630	2,360	1,100	1,130	2,340	2,050	1,650	1,000	641	498	201
13	1,510	2,480	3,430	1,000	1,060	1,840	1,840	1,410	938	439	419	196
14	1,270	4,780	3,140	844	1,070	2,190	1,660	1,290	828	444	414	191
15	1,090	3,500	2,800	792	1,350	4,870	1,560	1,200	740	435	1,160	196
16	1,000	3,880	2,620	763	1,290	2,840	1,390	1,070	696	395	971	196
17	984	3,650	2,480	768	1,100	3,000	1,310	1,000	1,000	379	729	186
18	921	3,490	2,200	830	1,050	3,500	1,370	916	1,740	353	718	186
19	960	3,370	1,950	929	941	3,800	1,280	784	1,250	336	685	196
20	925	3,530	2,020	946	941	4,000	1,200	839	2,980	323	588	191
21	661	3,380	2,560	795	922	3,900	1,150	839	2,320	905	578	191
22	632	3,180	2,940	1,110	895	3,900	1,070	784	1,880	883	480	191
23	658	2,870	2,900	1,560	901	3,900	1,060	784	1,680	714	403	363
24	1,010	2,490	2,610	1,330	863	3,700	1,050	1,540	1,630	695	363	263
25	1,170	2,070	2,320	1,080	823	3,500	982	1,540	1,520	685	336	225
26	1,100	2,030	2,170	927	848	2,800	927	1,830	1,360	894	316	215
27	1,010	2,140	2,070	1,110	813	3,300	1,030	1,840	1,200	993	290	205
28	628	2,050	1,880	1,930	794	2,800	2,400	1,750	1,050	817	279	201
29	659	1,690	1,660	2,500	------	2,320	2,240	1,570	1,200	727	274	225
30	931	1,510	1,600	1,890	------	2,260	2,040	1,710	1,000	641	257	336
31	1,170	------	1,700	1,600	------	2,240	------	1,820	------	567	257	------
TOTAL	42,839	82,150	71,140	45,252	41,911	79,899	49,899	40,469	40,012	21,807	13,736	6,737
MEAN	1,382	2,738	2,295	1,460	1,497	2,577	1,663	1,305	1,334	703	443	225
MAX	3,110	4,780	3,430	3,070	3,570	4,870	2,460	1,960	2,980	1,040	1,160	363
MIN	628	1,190	1,290	763	794	859	927	784	696	323	257	186

CAL YR 1972 TOTAL 527,363 MEAN 1,441 MAX 5,740 MIN 256
WTR YR 1973 TOTAL 535,851 MEAN 1,468 MAX 4,870 MIN 186

03136400 North Branch Kokosing River near Fredericktown, Ohio

LOCATION.--Lat 40°30'08", long 82°34'18", Knox County, on right bank at bridge on Township Road 377, 0.5 mi (0.8 km) downstream from dam for North Branch Kokosing River Lake, 2.0 mi (3.2 km) northwest of Fredericktown, and 2.7 mi (4.3 km) upstream from East Branch.

DRAINAGE AREA.--45.5 mi² (118 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1962-72, and annual maximum, water years 1963-72, July 1973 to September 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,092.03 ft (332.851 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 780 ft³/s (22.1 m³/s) Nov. 2, gage height, 4.63 ft (1.411 m); minimum during period July to September, 4.5 ft³/s (0.13 m³/s) Sept. 19-22.

Period of record: Maximum discharge, 6,000 ft³/s (170 m³/s) May 19, 1969, gage height, 9.95 ft (3.033 m) from rating extended above 3,700 ft³/s (105 m³/s); minimum observed discharge, 1.94 ft³/s (0.055 m³/s) Oct. 11, 1963.

Flood in January 1959 reached a stage of 13.4 ft (4.08 m), from floodmarks, discharge not determined.

REMARKS.--Records good. Flow partially regulated by North Branch Kokosing River Lake 0.5 mi (0.8 km) upstream (see station 03136300), since June 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										40	32	9.8
2										29	28	9.8
3										33	23	9.1
4										73	20	8.7
5										55	18	8.0
6										39	16	7.7
7										28	14	7.3
8										22	13	7.0
9										18	13	7.0
10										100	13	7.0
11										183	13	7.0
12										84	32	7.0
13										48	37	6.3
14										34	40	5.9
15										90	316	6.3
16										55	120	6.3
17										36	62	5.9
18										26	41	5.2
19										22	31	4.9
20										19	26	4.5
21										34	23	4.5
22										63	19	4.9
23										45	18	7.7
24										32	16	7.0
25										58	15	6.3
26										287	14	5.6
27										218	13	5.6
28										89	12	5.2
29					------					55	12	7.0
30					------					43	11	9.1
31		------			------		------		------	34	10	------
TOTAL										1,992	1,071	203.6
MEAN										64.3	34.5	6.79
MAX										287	316	9.8
MIN										18	10	4.5

03136500 Kokosing River at Mount Vernon, Ohio

LOCATION.--Lat 40°24'20", long 82°30'00", in sec.2, T.6 N., R.13 W., Knox County, on right bank at downstream side of Tilden Avenue Bridge at Mount Vernon, 0.8 mi (1.3 km) downstream from North Branch, and 2.7 mi (4.3 km) upstream from Dry Creek.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--February 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 984.16 ft (299.972 m) above mean sea level, levels by Corps of Engineers. Prior to Apr. 3, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 201 ft³/s (5.692 m³/s), 13.51 in/yr (343.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,300 ft³/s (65.1 m³/s) Nov. 14, gage height, 5.06 ft (1.542 m); minimum, 36 ft³/s (1.02 m³/s) Sept. 22.

Period of record: Maximum discharge, 38,000 ft³/s (1,080 m³/s) Jan. 21, 1959, gage height, 18.19 ft (5.544 m), from rating curve extended above 6,400 ft³/s (181 m³/s) on basis of slope-area measurement of peak flow; minimum, 12 ft³/s (0.34 m³/s) Sept. 29, 30, 1954.

REMARKS.--Records good. Some regulation by Knox Lake, capacity, 3,750 acre-ft (4.62 hm³), 8.2 mi (13.2 km) upstream on East Branch of North Branch Kokosing River beginning in 1954 and North Branch Kokosing River Lake (see station 03136300), 10.0 mi (16.1 km) upstream on North Branch Kokosing River, beginning in June 1972. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio, 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	185	245	446	256	141	379	319	213	188	155	60
2	502	1,290	239	322	744	172	324	284	173	155	143	60
3	313	1,870	252	295	942	239	294	307	158	160	126	59
4	237	804	260	1,210	576	313	406	290	223	233	112	56
5	214	444	305	740	402	353	889	252	329	243	102	56
6	200	322	888	420	338	385	548	221	585	193	94	54
7	183	372	1,070	260	336	296	386	202	440	150	89	52
8	164	1,880	557	210	321	252	380	212	284	126	84	49
9	143	1,420	799	190	272	215	408	311	215	112	82	49
10	125	663	744	170	210	266	807	360	180	143	87	49
11	114	520	535	150	190	295	726	1,610	155	400	85	49
12	136	417	382	151	170	361	664	730	188	240	198	47
13	179	364	823	142	166	296	788	416	253	165	238	46
14	158	1,970	714	138	175	490	488	318	180	128	225	46
15	137	1,300	454	139	268	2,020	373	266	143	180	520	46
16	130	643	351	138	267	1,030	311	238	140	175	325	45
17	135	450	297	139	217	1,310	322	225	318	128	208	45
18	125	361	260	149	177	966	611	210	585	106	158	43
19	126	324	251	170	164	706	441	198	281	94	128	42
20	125	507	471	173	163	614	362	223	1,330	90	117	42
21	117	426	753	149	161	560	314	230	862	114	110	42
22	112	341	746	272	150	456	276	198	420	188	98	41
23	128	293	595	404	150	380	322	193	275	155	89	52
24	177	260	452	289	143	358	359	290	218	130	85	52
25	162	243	379	222	138	352	284	294	188	343	80	47
26	144	250	344	212	141	531	245	233	168	856	77	45
27	132	276	325	276	139	637	370	218	155	1,060	74	42
28	132	312	292	506	134	400	972	215	173	412	72	42
29	146	285	268	652	------	333	565	205	325	260	69	50
30	156	253	288	361	------	512	386	210	253	203	66	63
31	144	------	359	284	------	454	------	243	------	170	63	------
TOTAL	6,196	19,045	14,698	9,379	7,510	15,693	14,000	9,721	9,410	7,300	4,159	1,471
MEAN	200	635	474	303	268	506	467	314	314	235	134	49.0
MAX	1,200	1,970	1,070	1,210	942	2,020	972	1,610	1,330	1,060	520	63
MIN	112	185	239	138	134	141	245	193	140	90	63	41
CFSM	.99	3.14	2.35	1.50	1.33	2.51	2.31	1.55	1.55	1.16	.66	.24
IN.	1.14	3.51	2.71	1.73	1.38	2.89	2.58	1.79	1.73	1.34	.77	.27

CAL YR 1972 TOTAL 127,930 MEAN 350 MAX 3,350 MIN 51 CFSM 1.73 IN 23.56
WTR YR 1973 TOTAL 118,582 MEAN 325 MAX 2,020 MIN 41 CFSM 1.61 IN 21.84

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0230	4.92	2,160	3-15	0900	5.02	2,260
11-8	1630	4.90	2,140	5-11	0230	4.83	2,070
11-14	1630	5.06	2,300				

03137000 Kokosing River at Millwood, Ohio

LOCATION.--Lat 40°23'51", long 82°17'09", in SE 1/4 T.7 N., R.11 W., Knox County, on left bank 0.4 mi (0.6 km) west of Millwood, 1.5 mi (2.4 km) upstream from Honey Run, and 2.0 mi (3.2 km) downstream from Jelloway Creek.

DRAINAGE AREA.--455 mi² (1,178 km²).

PERIOD OF RECORD.--October 1921 to current year. Published as "near Millwood" October 1921 to July 1939. Records published for both sites October 1938 to July 1939.

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft (263.652 m) above mean sea level. Prior to July 10, 1931, nonrecording gage at site 3.8 mi (6.1 km) downstream, and July 10, 1931, to July 31, 1939, water-stage recorder at site 3.5 mi (5.6 km) downstream at datum 23.94 ft (7.297 m) lower.

AVERAGE DISCHARGE.--52 years, 480 ft³/s (13.59 m³/s), 14.33 in/yr (364.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,590 ft³/s (215 m³/s) June 20, gage height, 12.82 ft (3.908 m); minimum, 90 ft³/s (2.55 m³/s) Sept. 22, 27, 28, 29.

Period of record: Maximum discharge, 75,900 ft³/s (2,150 m³/s) Jan. 21, 1959, gage height, 34.00 ft (10.363 m) (from high-water mark in well), from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of slope-area measurement of peak flow; minimum, 33 ft³/s (0.93 m³/s) Aug. 17, 26, 1932, Sept. 27, 28, 1954.

Flood in March 1913 reached a stage corresponding to 22.0 ft (6.71 m) at former site and datum, discharge, 40,000 ft³/s (1,130 m³/s), estimated.

REMARKS.--Records good. Some regulation by North Branch Kokosing River Lake (see Station 03136300), 29.0 mi (46.7 km) upstream on North Branch Kokosing River, beginning June 1972. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1933, 1935. WRD Ohio, 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,630	466	550	846	593	314	986	800	434	390	299	139
2	1,220	3,010	542	699	1,750	346	835	714	362	332	274	131
3	780	3,650	551	648	2,140	441	752	725	342	345	255	127
4	600	2,030	606	2,710	1,400	558	1,030	674	528	471	236	124
5	538	1,270	750	1,790	1,020	695	1,850	589	796	453	208	121
6	478	986	1,780	1,120	844	807	1,290	518	1,300	373	194	155
7	434	1,250	2,150	810	779	697	976	476	1,320	308	185	126
8	386	3,970	1,450	678	742	603	1,070	479	795	274	176	116
9	335	2,840	1,970	602	630	518	1,030	646	584	251	170	112
10	296	1,530	1,630	500	517	747	1,940	708	470	249	190	113
11	275	1,150	1,210	410	464	760	1,750	3,080	397	477	190	108
12	329	920	922	380	408	811	1,560	1,660	692	399	331	107
13	382	784	1,530	350	390	698	1,830	1,030	1,120	292	434	104
14	341	4,650	1,410	342	406	836	1,260	778	585	246	534	103
15	308	3,060	1,090	344	637	4,160	980	687	434	245	923	104
16	296	1,770	960	335	598	2,280	823	592	394	282	661	99
17	299	1,320	760	325	473	2,910	961	553	1,480	229	432	96
18	281	1,060	692	327	436	2,250	3,250	501	4,010	203	330	97
19	281	753	640	360	391	1,670	1,530	465	1,710	188	279	95
20	281	1,110	1,110	363	382	1,490	1,160	511	5,620	182	258	94
21	272	920	1,510	321	371	1,320	942	492	2,470	225	279	94
22	263	759	1,460	600	351	1,110	809	427	1,300	281	232	93
23	287	670	1,220	797	344	923	848	406	865	263	206	116
24	350	592	979	499	328	829	884	535	651	244	193	106
25	338	547	822	471	316	805	723	646	532	411	183	102
26	321	572	763	442	321	1,240	634	511	458	1,240	173	96
27	301	607	725	589	315	1,650	833	493	410	1,720	166	92
28	306	663	650	1,000	308	1,060	1,900	520	408	787	161	90
29	327	606	596	1,320	------	902	1,290	490	597	503	155	105
30	333	556	617	830	------	1,220	957	457	517	379	150	140
31	319	------	708	655	------	1,110	------	470	------	320	146	------
TOTAL	14,187	44,071	32,353	21,563	17,654	35,760	36,683	21,633	31,581	12,582	8,603	3,305
MEAN	458	1,469	1,044	696	631	1,154	1,223	698	1,053	406	278	110
MAX	2,630	4,650	2,150	2,710	2,140	4,160	3,250	3,080	5,620	1,720	923	155
MIN	263	466	542	321	308	314	634	406	342	182	146	90
CFSM	1.01	3.23	2.29	1.53	1.39	2.54	2.69	1.53	2.31	.89	.61	.24
IN.	1.16	3.60	2.65	1.76	1.44	2.92	3.00	1.77	2.58	1.03	.70	.27

CAL YR 1972 TOTAL 269,108 MEAN 735 MAX 4,690 MIN 110 CFSM 1.62 IN 22.00
WTR YR 1973 TOTAL 279,975 MEAN 767 MAX 5,620 MIN 90 CFSM 1.69 IN 22.89

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1930	11.23	5,620	3-15	0500	11.01	5,350	6-18	0600	12.28	6,880
11-14	1130	11.71	6,190	4-18	0500	10.91	5,230	6-20	0500	12.82	7,590

03138500 Walhonding River below Mohawk Dam, at Nellie, Ohio

LOCATION.--Lat 40°20'29", long 81°03'56", in T.6 N., R.8 W., Coshocton County, on right bank at upstream side of bridge on U.S. Highway 36 at Nellie, 0.5 mi (0.8 km) upstream from Mohawk Creek, and 1.7 mi (2.7 km) downstream from Mohawk Dam.

DRAINAGE AREA.--1,505 mi² (3,898 km²).

PERIOD OF RECORD.--December 1910 to March 1913 (gage heights and discharge measurements only), September 1921 to current year. Published as Mohican River at Pomerene 1910-13, as Walhonding River at Pomerene 1921-37, and as Walhonding River at Nellie 1938-39.

GAGE.--Water-stage recorder. Datum of gage is 790.00 ft (240.792 m) above mean sea level, adjustment of 1912. Prior to Nov. 7, 1925, nonrecording gage and Nov. 7, 1925, to Sept. 30, 1937, water-stage recorder at site 3.8 mi (6.1 km) upstream at datum 15.53 ft (4.734 m) higher. Oct. 1, 1937, to Sept. 30, 1938, nonrecording gage at present site at datum 2.09 ft (0.637 m) higher.

AVERAGE DISCHARGE.--52 years, 1,456 ft³/s (41.23 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,870 ft³/s (195 m³/s) June 20; maximum gage height 11.15 ft (3.399 m) Oct. 1; minimum discharge, 58 ft³/s (1.64 m³/s) Sept 14.

Period of record: Maximum discharge at site at Pomerene, 43,800 ft³/s (1,240 m³/s) Jan. 25, 1937; maximum discharge at present site since regulation began at Mohawk Dam, 24,000 ft³/s (680 m³/s) Jan. 25, 26, 1937, gage height, 18.8 ft (5.73 m), present datum, from floodmarks; minimum, 3.3 ft³/s (0.093 m³/s) Oct. 20, 1939; minimum daily discharge, 19 ft³/s (0.54 m³/s) Feb. 27, 1954.

Flood in March 1913 reached a stage of 26.9 ft (8.20 m), discharge, 102,000 ft³/s (2,890 m³/s), present site and datum, from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated beginning 1936 by 5 flood-control reservoirs at points 1.7 mi (2.7 km) to 54 mi (87 km) upstream (see stations 03129500, 03133000, 03134500, 03136300, and 03138000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,670	1,390	2,080	2,510	2,430	1,210	3,530	3,050	2,330	1,530	963	436
2	5,640	2,950	1,970	2,530	2,860	1,270	3,140	2,680	1,900	1,350	900	486
3	3,530	6,180	1,900	2,340	4,870	1,740	2,760	2,450	1,640	1,320	764	431
4	3,160	5,910	1,910	3,050	5,110	1,970	2,540	2,260	1,710	1,540	688	395
5	3,010	4,400	2,200	4,470	4,800	2,010	4,300	2,000	1,970	1,660	630	384
6	2,870	2,920	2,880	5,340	3,810	2,650	4,220	1,760	2,720	1,590	581	419
7	2,570	3,100	4,610	4,020	3,520	2,560	3,390	1,580	3,390	1,400	553	436
8	2,140	5,030	4,730	2,820	3,020	2,290	3,210	1,490	2,560	1,260	532	379
9	1,880	6,190	4,750	2,140	2,740	2,000	3,360	1,750	2,000	1,140	512	356
10	1,670	5,690	4,730	1,700	2,360	2,030	4,300	1,840	1,790	1,040	525	345
11	1,380	4,840	4,350	1,500	1,980	2,700	4,770	4,360	1,690	1,210	553	345
12	1,270	4,120	3,850	1,400	1,730	3,050	4,120	4,380	1,600	1,310	651	340
13	1,650	3,410	3,850	1,400	1,580	2,910	4,140	2,940	2,400	999	1,100	329
14	1,710	4,910	4,490	1,300	1,550	2,530	3,480	2,400	1,700	828	1,040	324
15	1,410	6,570	4,420	1,200	1,870	4,840	2,960	2,130	1,370	772	1,860	324
16	1,290	6,210	4,160	1,100	2,080	5,080	2,610	1,880	1,230	780	2,210	319
17	1,260	5,930	3,760	1,100	1,680	5,390	2,420	1,720	1,890	688	1,420	308
18	1,230	5,400	3,330	1,220	1,650	5,590	5,090	1,590	5,130	658	1,210	303
19	1,180	4,950	3,150	1,310	1,470	6,020	4,030	1,420	3,870	630	1,110	308
20	1,210	4,780	2,900	1,390	1,420	6,280	2,930	1,410	5,820	595	990	303
21	1,080	4,600	3,310	1,290	1,410	6,220	2,520	1,460	6,720	856	972	303
22	973	4,500	3,830	1,240	1,360	5,990	2,220	1,320	5,930	1,420	860	297
23	965	4,040	4,130	2,280	1,340	6,240	2,160	1,260	4,010	1,140	725	356
24	1,130	3,510	4,040	2,320	1,290	5,960	2,220	1,820	2,840	1,030	651	486
25	1,420	2,860	3,720	1,820	1,230	5,680	1,970	2,450	2,610	1,150	602	351
26	1,370	2,690	3,410	1,490	1,230	4,480	1,770	2,340	2,250	1,690	560	329
27	1,300	2,710	3,160	1,590	1,230	5,700	1,790	2,630	1,950	3,200	525	313
28	1,100	2,820	2,930	2,480	1,190	5,100	4,080	2,500	1,720	1,980	493	308
29	1,020	2,530	2,500	3,170	------	3,830	4,320	2,340	1,900	1,470	480	324
30	1,070	2,180	2,460	3,280	------	3,850	3,560	2,320	1,910	1,220	454	425
31	1,340	------	2,340	3,150	------	3,870	------	2,480	------	1,040	448	------
TOTAL	59,498	127,320	105,850	67,950	62,810	121,040	97,910	68,010	80,550	38,486	25,562	10,762
MEAN	1,919	4,244	3,415	2,192	2,243	3,905	3,264	2,194	2,685	1,241	825	359
MAX	6,670	6,570	4,750	5,340	5,110	6,280	5,090	4,380	6,720	3,200	2,210	486
MIN	965	1,390	1,900	1,100	1,190	1,210	1,770	1,260	1,230	595	448	297

CAL YR 1972 TOTAL 829,839 MEAN 2,267 MAX 6,760 MIN 412
WTR YR 1973 TOTAL 865,748 MEAN 2,372 MAX 6,720 MIN 297

03139000 Killbuck Creek at Killbuck, Ohio

LOCATION.--Lat 40°19'41", long 81°59'12", Holmes County, on right bank at downstream side of highway bridge at Killbuck, 0.3 mi (0.5 km) downstream from Black Creek, and 0.9 mi (1.4 km) upstream from bridge on U.S. Highway 62.

DRAINAGE AREA.--462 mi² (1,197 km²).

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder and nonrecording gage read once daily. Datum of gage is 788.05 ft (240.198 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 391 ft³/s (11.07 m³/s), 11.50 in/yr (292.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,540 ft³/s (71.9 m³/s) Mar. 15, 18, gage height, 19.91 ft (6.069 m); minimum, 76 ft³/s (2.15 m³/s) Sept. 5.

Period of record: Maximum discharge, 47,500 ft³/s (1,350 m³/s) July 5, 1969, gage height, 26.40 ft (8.047 m) (from floodmarks), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; minimum, 23 ft³/s (0.65 m³/s) Sept. 10-15, 28-30, 1954.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1935. WSP 1555: 1935. WSP 1907: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,530	270	564	664	700	438	929	1,030	788	307	147	97
2	1,420	808	544	607	1,130	544	856	874	718	295	154	87
3	1,400	1,750	522	547	1,660	651	778	748	620	279	138	80
4	1,360	1,510	522	1,130	1,630	702	780	659	586	295	126	79
5	1,180	1,320	615	1,140	1,520	806	1,120	588	576	298	119	90
6	826	1,090	962	1,010	1,390	988	1,100	517	574	293	113	334
7	593	911	1,280	860	1,290	986	1,060	470	590	261	109	165
8	464	1,740	1,260	656	1,130	992	1,080	454	537	244	105	114
9	380	1,820	1,460	498	933	884	1,110	506	471	233	101	99
10	330	1,640	1,570	418	728	898	1,240	545	410	284	111	96
11	293	1,510	1,470	365	624	911	1,290	1,130	355	352	115	93
12	325	1,390	1,310	332	510	997	1,280	1,100	355	267	164	89
13	391	1,210	1,360	309	484	942	1,220	894	547	213	151	87
14	362	1,890	1,360	281	495	953	1,060	722	381	190	140	85
15	318	2,250	1,330	277	768	2,190	876	613	323	192	245	85
16	284	2,030	1,350	268	784	2,300	744	552	315	182	200	81
17	276	1,920	1,200	271	601	2,390	692	512	401	199	150	79
18	260	1,790	953	283	556	2,520	1,320	459	756	172	132	79
19	256	1,620	860	310	554	2,400	1,300	421	627	169	120	81
20	249	1,450	975	311	522	2,170	1,080	440	1,010	167	113	88
21	245	1,280	1,090	269	503	1,900	848	425	992	273	110	93
22	244	1,130	1,150	396	478	1,700	712	390	673	321	107	85
23	247	995	1,150	527	480	1,490	716	384	495	241	103	106
24	279	854	1,140	471	456	1,280	704	663	428	205	99	106
25	288	752	1,100	386	429	1,120	613	953	454	227	96	98
26	265	722	1,020	355	429	1,130	564	979	412	445	92	86
27	245	688	935	428	422	1,290	635	1,030	367	550	87	80
28	237	664	820	645	412	1,150	1,210	1,080	351	290	86	78
29	244	627	730	832	------	1,050	1,240	1,090	356	207	82	83
30	262	586	680	730	------	1,050	1,160	1,000	340	170	82	115
31	273	------	661	698	------	992	------	872	------	150	103	------
TOTAL	15,326	38,217	31,943	16,324	21,618	39,814	29,317	22,100	15,808	7,941	3,800	3,018
MEAN	494	1,274	1,030	527	772	1,284	977	713	527	256	123	101
MAX	1,530	2,250	1,570	1,140	1,660	2,520	1,320	1,130	1,010	550	245	334
MIN	237	270	522	268	412	438	564	384	315	150	82	78
CFSM	1.07	2.76	2.23	1.14	1.67	2.78	2.11	1.54	1.14	.55	.27	.22
IN.	1.23	3.08	2.57	1.31	1.74	3.21	2.36	1.78	1.27	.64	.31	.24

CAL YR 1972 TOTAL 222,905 MEAN 609 MAX 2,400 MIN 119 CFSM 1.32 IN 17.95
WTR YR 1973 TOTAL 245,226 MEAN 672 MAX 2,520 MIN 78 CFSM 1.45 IN 19.75

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	2400	14.69	2,380	3-18	0800	14.91	2,540
3-15	1700	14.91	2,540				

03140000 Mill Creek near Coshocton, Ohio

LOCATION.--Lat 40°21'46", long 81°51'45", Coshocton County, on left bank 0.5 mi (0.8 km) downstream from Little Mill Creek and 6 mi (10 km) north of Coshocton.

DRAINAGE AREA.--27.2 mi^2 (70.4 km^2).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for October 1936, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 782.00 ft (238.354 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--37 years, 27.1 ft^3/s (0.767 m^3/s), 13.53 in/yr (343.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 860 ft^3/s (24.4 m^3/s) Apr. 18, gage height, 9.02 ft (2.749 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Sept. 22, gage height, 0.91 ft (0.277 m).

Period of record: Maximum discharge, 8,720 ft^3/s (247 m^3/s) July 5, 1969, gage height, 13.92 ft (4.243 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s) on basis of slope-area measurement of peak flow; no flow Sept. 28, 29, 1954, Aug. 29-31, 1962, and part of each day Dec. 23, 31, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1143: 1946, 1947-48(P). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	5.8	25	28	47	21	67	50	20	10	4.9	2.6
2	5.6	117	25	24	194	23	60	46	17	9.1	3.9	2.3
3	4.2	66	23	45	121	25	50	42	17	9.0	2.9	2.0
4	3.6	30	28	169	74	26	106	37	74	8.6	2.7	1.8
5	4.9	21	88	69	56	66	117	33	40	10	2.4	1.9
6	3.9	17	162	49	61	55	76	29	40	6.9	2.1	4.2
7	3.6	139	83	36	65	51	60	26	43	6.0	2.0	3.0
8	3.3	201	126	30	67	44	71	27	30	5.4	1.9	2.3
9	3.0	75	146	24	51	38	63	29	24	5.1	1.8	2.2
10	2.3	52	92	20	42	39	92	40	20	17	3.3	1.9
11	2.0	46	61	18	38	39	73	197	17	12	9.0	1.6
12	7.4	34	54	17	36	37	67	56	77	6.3	18	1.5
13	6.3	42	91	16	36	32	56	42	47	5.3	6.1	1.4
14	4.1	249	58	16	38	116	48	35	27	4.6	23	1.4
15	3.3	79	87	15	87	276	43	31	21	4.2	47	1.4
16	3.2	51	81	16	59	100	39	28	25	3.8	11	1.4
17	3.3	40	50	16	50	118	45	27	76	3.4	65	1.3
18	2.9	33	45	17	44	83	339	23	101	3.1	26	1.2
19	3.8	34	42	21	38	69	103	21	39	2.9	14	1.2
20	2.9	57	72	17	32	65	71	25	30	2.9	10	1.2
21	2.6	38	58	14	30	54	55	20	24	11	8.2	1.2
22	2.7	33	54	46	27	46	48	18	20	8.7	6.3	1.2
23	3.0	29	45	48	26	40	54	18	17	4.6	5.6	15
24	3.6	26	39	31	24	36	47	21	27	3.8	5.0	3.1
25	3.0	25	35	26	22	36	41	23	24	6.1	4.5	2.2
26	2.7	28	37	24	23	150	38	21	16	11	4.0	1.8
27	2.6	26	36	40	21	120	110	18	13	8.5	3.8	1.7
28	2.7	26	31	55	21	71	152	23	18	4.8	3.3	1.6
29	3.3	23	28	56	------	67	79	20	16	3.8	3.0	2.4
30	3.5	24	28	44	------	104	60	22	12	3.3	2.8	5.5
31	3.0	------	29	38	------	75	------	28	------	3.2	3.0	------
TOTAL	115.9	1,666.8	1,859	1,085	1,430	2,122	2,330	1,076	972	204.4	306.5	73.5
MEAN	3.74	55.6	60.0	35.0	51.1	68.5	77.7	34.7	32.4	6.59	9.89	2.45
MAX	9.6	249	162	169	194	276	339	197	101	17	65	15
MIN	2.0	5.8	23	14	21	21	38	18	12	2.9	1.8	1.2
CFSM	.14	2.04	2.21	1.29	1.88	2.52	2.86	1.28	1.19	.24	.36	.09
IN.	.16	2.28	2.54	1.48	1.96	2.90	3.19	1.47	1.33	.28	.42	.10

CAL YR 1972 TOTAL 11,817.97 MEAN 32.3 MAX 329 MIN .67 CFSM 1.19 IN 16.16
WTR YR 1973 TOTAL 13,241.10 MEAN 36.3 MAX 339 MIN 1.2 CFSM 1.33 IN 18.11

PEAK DISCHARGE (BASE, 700 FT^3/S).--Apr. 18 (0445) 860 FT^3/S (9.02 ft).

03140500 Muskingum River near Coshocton, Ohio

LOCATION.--Lat 40°14'54", long 81°52'23", in T.5 N., R.6 W., Coshocton County, on right bank at upstream side of highway bridge, 1 mi (2 km) southwest of Coshocton, and 2 mi (3 km) downstream from confluence of Tuscarawas and Walhonding Rivers.

DRAINAGE AREA.--4,859 mi² (12,585 km²).

PERIOD OF RECORD.--July 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 730.00 ft (222.504 m) above mean sea level, adjustment of 1912. Prior to Sept. 19, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 4,762 ft³/s (134.9 m³/s).

EXTREMES.--Current year: Maximum discharge, 17,900 ft³/s (507 m³/s) Mar. 17, 19, gage height, 9.21 ft (2.807 m); minimum, 987 ft³/s (28.0 m³/s) Sept. 14.

Period of record: Maximum discharge, 78,700 ft³/s (2,230 m³/s) Jan. 26, 1937, gage height, 21.98 ft (6.700 m); minimum, 342 ft³/s (9.69 m³/s) Nov. 4, 1944.

Flood in March 1913 reached a stage of about 28.8 ft (8.78 m), discharge, 202,000 ft³/s (5,720 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 13 flood-control reservoirs at points 19 mi (31 km) to 88 mi (142 km) upstream (see pp. 80, 81). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,200	3,120	6,480	6,860	7,260	4,270	10,700	12,300	8,890	3,620	2,430	1,420
2	10,800	4,830	6,230	6,820	8,890	4,390	9,710	10,300	7,990	3,160	2,300	1,480
3	9,080	11,600	5,980	6,610	13,500	5,360	8,930	9,380	6,800	2,960	2,130	1,340
4	7,880	13,100	5,810	8,960	15,300	6,040	8,580	8,830	6,310	3,080	2,020	1,220
5	7,160	11,600	6,460	11,500	14,900	6,630	11,000	8,090	6,610	3,160	1,850	1,170
6	6,460	8,580	8,300	13,200	12,600	8,090	12,700	7,100	7,000	3,160	1,690	1,320
7	5,490	7,760	11,900	10,700	11,800	9,140	12,000	6,340	8,090	2,920	1,580	1,640
8	4,560	11,900	13,800	8,350	11,200	8,700	10,900	5,950	7,240	2,670	1,530	1,530
9	3,940	14,400	15,300	6,740	10,500	7,600	10,600	6,150	6,000	2,470	1,470	1,310
10	3,460	14,400	14,700	6,060	9,120	6,900	11,600	6,570	5,260	2,370	1,440	1,210
11	3,010	13,100	13,600	5,630	7,580	7,260	12,900	11,400	4,750	2,960	1,540	1,150
12	2,740	11,500	12,100	5,000	6,500	7,820	12,900	13,200	4,390	3,100	1,760	1,120
13	3,090	9,480	11,500	4,710	5,850	7,970	12,600	11,300	5,290	2,590	2,350	1,090
14	3,640	11,700	12,300	4,290	5,710	7,460	11,200	9,310	4,810	2,240	2,340	1,060
15	3,300	15,500	12,800	4,100	6,400	12,600	9,730	8,070	4,000	2,040	3,890	1,070
16	2,940	16,200	12,900	3,940	8,070	16,400	8,640	7,100	3,590	1,980	4,460	1,060
17	2,710	15,700	11,800	3,830	7,800	17,500	7,860	6,460	4,020	1,850	3,350	1,030
18	2,600	14,300	10,400	3,730	6,650	17,400	11,400	5,980	8,070	1,820	2,890	1,010
19	2,500	12,600	9,630	3,920	6,230	17,500	12,300	5,540	9,120	1,710	2,500	1,010
20	2,480	11,500	9,500	4,270	5,890	17,800	10,900	5,400	8,600	1,670	2,360	1,010
21	2,370	11,300	10,300	4,290	5,870	17,100	9,270	5,620	10,100	1,850	2,220	1,010
22	2,190	11,000	11,400	4,360	5,810	15,900	7,860	5,560	9,270	3,090	2,310	1,010
23	2,160	9,800	11,700	5,960	5,620	15,500	7,300	5,080	7,520	3,170	2,420	1,060
24	2,240	8,700	11,200	7,240	5,130	14,900	7,560	5,470	5,340	2,710	2,110	1,700
25	2,660	7,580	10,300	6,590	4,640	14,200	7,500	9,120	5,020	2,730	1,890	1,600
26	2,940	7,100	9,460	5,530	4,440	12,500	6,920	10,500	4,990	2,810	1,730	1,330
27	2,870	7,160	8,930	5,560	4,390	14,400	7,100	10,900	4,390	5,240	1,590	1,170
28	2,680	7,600	8,510	6,500	4,290	14,000	11,500	10,300	3,910	5,310	1,490	1,090
29	2,480	7,500	7,540	8,200	------	11,800	13,900	9,920	3,910	4,040	1,430	1,090
30	2,470	7,000	7,140	9,210	------	11,200	13,400	9,380	4,300	3,090	1,370	1,300
31	2,730	------	6,780	8,640	------	11,500	------	9,440	------	2,590	1,330	------
TOTAL	125,830	317,610	314,750	201,300	221,940	349,830	309,460	256,060	185,620	88,160	65,770	36,610
MEAN	4,059	10,590	10,150	6,494	7,926	11,280	10,320	8,260	6,187	2,844	2,122	1,220
MAX	10,800	16,200	15,300	13,200	15,300	17,800	13,900	13,200	10,100	5,310	4,460	1,700
MIN	2,160	3,120	5,810	3,730	4,290	4,270	6,920	5,080	3,590	1,670	1,330	1,010

CAL YR 1972 TOTAL 2,275,770 MEAN 6,218 MAX 17,800 MIN 1,070
WTR YR 1973 TOTAL 2,472,940 MEAN 6,775 MAX 17,800 MIN 1,010

03141500 Seneca Fork below Senecaville Dam, near Senecaville, Ohio

LOCATION.--Lat 39°55'28", long 81°26'17", Guernsey County, on left bank 650 ft (198 m) downstream from Senecaville Dam, and 1.5 mi (2.4 km) southeast of Senecaville.

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--September 1938 to current year. Published as Seneca Fork near Senecaville prior to 1940.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.00 ft (243.535 m) above mean sea level, adjustment of 1912. Prior to Jan. 24, 1942, at site 150 ft (46 m) downstream at same datum.

AVERAGE DISCHARGE.--35 years, 126 ft³/s (3.568 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 674 ft³/s (19.1 m³/s) Nov. 11, gage height, 8.49 ft (2.588 m); minimum, 0.10 ft³/s (0.003 m³/s) Dec. 7, 8, gage height, 3.80 ft (1.158 m).

Period of record: Maximum discharge, 914 ft³/s (25.9 m³/s) Apr. 7, 1964; maximum gage height, 10.35 ft (3.155 m) Feb. 1, 1949; no flow May 3, 4, 1939, Jan. 28, 29, Feb. 4, 5, Apr. 25, 1952.

REMARKS.--Records good. Flow regulated by Senecaville Lake (see station 03141000). Water is diverted from Senecaville Lake for U. S. Fish Hatchery; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	2.3	603	557	286	3.2	41	603	328	9.7	1.9	13
2	6.9	65	596	548	123	3.2	7.2	599	85	9.7	1.7	13
3	6.6	171	587	552	247	2.9	7.6	568	85	10	1.7	11
4	6.6	236	447	231	126	2.4	92	331	220	9.7	1.7	4.8
5	6.6	236	388	217	328	2.2	177	562	404	9.7	1.9	3.8
6	6.6	163	506	322	533	3.8	174	527	383	9.3	2.0	3.4
7	6.6	116	56	321	534	6.0	174	529	382	9.0	1.7	2.0
8	16	55	106	430	527	2.9	177	596	385	9.0	5.6	1.9
9	7.6	.88	18	527	390	1.9	263	241	103	9.7	3.8	1.7
10	4.4	315	.5	283	187	.96	391	357	103	9.7	3.8	1.9
11	4.4	671	304	38	185	4.0	430	378	53	9.7	4.0	2.0
12	4.4	663	633	39	337	7.6	431	174	21	9.7	3.8	1.9
13	4.2	250	638	38	241	7.2	431	258	94	6.3	3.8	2.0
14	4.2	55	629	35	85	7.6	423	452	46	4.2	4.0	2.0
15	4.0	71	626	25	87	7.9	420	580	15	4.0	3.6	2.0
16	3.6	276	508	65	82	7.9	417	576	15	3.6	3.4	2.0
17	3.2	366	326	65	133	8.2	331	572	16	3.4	3.4	2.2
18	3.2	360	388	65	131	8.2	286	344	94	1.0	3.4	2.0
19	3.2	358	499	65	87	8.2	225	118	106	5.0	3.4	3.2
20	2.9	447	418	65	108	8.2	92	118	133	7.2	3.8	2.9
21	2.6	557	155	65	193	8.2	42	187	142	7.6	4.0	2.0
22	2.7	599	310	214	106	69	72	139	106	7.6	4.0	2.0
23	2.6	592	315	471	3.6	263	128	113	92	7.6	3.8	2.0
24	2.6	585	312	433	2.0	302	56	85	89	7.6	4.2	1.7
25	2.6	576	312	298	2.0	128	212	123	35	7.6	4.2	16
26	2.4	579	317	155	1.7	236	464	118	9.3	7.6	3.8	27
27	2.6	310	512	89	1.6	233	281	121	9.0	7.2	3.2	28
28	2.6	4.6	587	92	2.9	193	3.6	123	9.7	7.6	11	29
29	2.4	155	580	209	------	128	5.0	201	9.7	6.6	13	29
30	2.6	523	572	436	------	96	330	355	9.7	3.2	13	29
31	2.3	------	565	515	------	89	------	436	------	2.3	13	------
TOTAL	139.8	9,357.78	12,813.5	7,465	5,069.8	1,847.36	6,583.4	10,484	3,582.4	222.3	139.6	244.4
MEAN	4.51	312	413	241	181	59.6	219	338	119	7.17	4.50	8.15
MAX	16	671	638	557	534	302	464	603	404	10	13	29
MIN	2.3	.88	.50	25	1.6	.96	3.6	85	9.0	1.0	1.7	1.7
(+)	2.30	0.93	1.78	1.95	2.72	0.88	2.01	2.08	2.39	2.01	2.01	2.22

CAL YR 1972 TOTAL 53,392.28 MEAN 146 MAX 723 MIN .50 (+) 2.03

WTR YR 1973 TOTAL 57,949.64 MEAN 159 MAX 671 MIN .50 (+) 1.94

+ Diversion for water supply for U. S. Fish Hatchery; furnished by Senecaville National Fish Hatchery.

03142000 Wills Creek at Cambridge, Ohio

LOCATION.--Lat 40°00'52", long 81°35'14", Guernsey County, on left bank at upstream side of bridge on Campbell Avenue in Cambridge, 0.9 mi (1.4 km) downstream from Leatherwood Creek.

DRAINAGE AREA.--406 mi² (1,052 km²).

PERIOD OF RECORD.--June 1926 to September 1928, May 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 772.34 ft (235.409 m) above mean sea level. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum. Oct. 6, 1927, to Sept. 30, 1928, and May 22, 1937, to Oct. 18, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--38 years, 433 ft³/s (12.26 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,440 ft³/s (69.1 m³/s) Dec. 10, gage height, 12.21 ft (3.722 m); minimum, 8.6 ft³/s (0.24 m³/s) Sept. 16.

Period of record: Maximum discharge, about 8,500 ft³/s (241 m³/s) June 6 or 7, 1963; maximum gage height, 22.55 ft (6.873 m) June 6, 1963 (backwater from tributaries); minimum discharge, 0.6 ft³/s (0.017 m³/s) Oct. 6, 1960.

Flood of Aug. 8, 1935, reached a stage of 25.4 ft (7.74 m).

REMARKS.--Records good. Flow regulated by Senecaville Lake on Seneca Fork, 22 mi (35 km) upstream, beginning in 1937 (see station 03141000). Water is diverted 2.7 mi (4.3 km) upstream from station for municipal supply of city of Cambridge; diversion not included in figures of daily discharge. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 853: 1929(M). WSP 893: 1928. WSP 973: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	117	830	840	875	199	419	1,130	712	75	51	20
2	136	667	887	809	929	197	405	1,070	485	81	58	20
3	79	1,010	861	758	1,570	205	372	1,260	271	62	46	20
4	59	781	807	1,170	1,690	251	543	1,620	271	75	37	20
5	51	485	746	1,590	1,060	357	1,470	1,220	876	92	30	19
6	48	386	962	1,030	798	775	1,300	1,040	1,040	117	28	15
7	51	303	1,550	722	1,210	511	760	881	737	67	26	15
8	41	1,210	1,400	581	1,430	381	769	877	627	51	25	19
9	41	1,880	1,930	668	1,390	296	1,220	1,390	508	46	24	15
10	37	1,410	2,410	701	1,130	251	1,310	1,370	247	76	25	12
11	33	842	2,170	462	639	226	1,440	1,110	207	171	22	12
12	41	935	1,410	195	517	225	1,270	1,200	159	133	22	13
13	50	854	1,290	240	641	254	1,430	758	170	68	41	12
14	61	889	1,340	196	495	226	1,380	641	222	49	76	12
15	42	1,470	1,190	194	924	660	1,060	772	147	65	126	10
16	39	926	1,380	207	1,140	804	884	819	94	127	88	9.2
17	36	626	1,170	216	608	1,010	803	796	96	69	54	9.5
18	37	567	776	241	538	1,130	726	776	311	43	37	12
19	43	523	790	280	482	787	667	472	469	35	32	13
20	45	913	1,240	509	405	690	544	464	271	33	30	21
21	45	1,250	1,670	398	433	574	358	564	246	106	31	21
22	39	1,000	1,370	396	487	436	283	454	271	497	35	18
23	42	878	1,150	1,160	349	434	542	354	203	612	29	19
24	51	790	913	1,250	229	554	1,640	353	178	222	25	22
25	74	734	773	993	212	547	1,780	867	159	128	32	26
26	61	873	717	699	215	442	1,430	822	103	197	30	32
27	52	1,070	816	606	226	1,080	1,430	532	67	142	25	43
28	49	708	916	1,100	214	712	2,100	691	64	101	19	37
29	52	432	911	1,050	------	551	2,340	744	96	81	24	45
30	60	573	869	854	------	486	1,800	604	99	66	28	51
31	63	------	845	769	------	449	------	739	------	53	23	------
TOTAL	1,868	25,102	36,089	20,864	20,840	15,900	32,475	26,390	9,404	3,740	1,179	612.7
MEAN	60.3	837	1,164	673	744	513	1,083	851	313	121	38.0	20.4
MAX	310	1,880	2,410	1,590	1,690	1,130	2,340	1,620	1,040	612	126	51
MIN	33	117	717	194	212	197	283	353	64	33	19	9.2
(*)	4.97	4.77	4.91	5.45	5.27	4.94	4.81	4.76	4.80	5.19	5.30	5.19

CAL YR 1972 TOTAL 170,663.0 MEAN 466 MAX 2,410 MIN 15 (*) 4.48
WTR YR 1973 TOTAL 194,463.7 MEAN 533 MAX 2,410 MIN 9.2 (*) 5.05

* Diversion in cubic feet per second; furnished by city of Cambridge.

03142295 Salt Fork below Salt Fork Dam, near Cambridge, Ohio

LOCATION.--Lat 40°06'15", long 81°33'15", T.3 N., R.3 W., Guernsey County, at outlets works near left end of Salt Fork Dam, 0.8 mi (1.3 km) upstream from the mouth and 5.0 mi (8.0 km) north of Cambridge.

DRAINAGE AREA.--159 mi^2 (412 km^2).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and morning-glory spillway control. Datum of gage is 700.00 ft (213.360 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Same gage and elevations as Salt Fork Reservoir (station 03142290).

EXTREMES.--Current year: Maximum discharge, 688 ft^3/s (19.5 m^3/s) Apr. 29, elevation, 803.05 ft (244.770 m); no flow Sept. 9-29.

Period of record: Maximum discharge, 840 ft^3/s (23.8 m^3/s) Apr. 23, 1972, elevation, 803.45 ft (244.892 m); no flow at times in 1970-71, 1973.

REMARKS.--Records good except those below 1 ft^3/s (0.028 m^3/s), which are fair. Flow completely regulated by Salt Fork Reservoir (see station 03142290). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	27	200	252	220	149	319	576	316	54	34	3.0
2	30	45	190	212	322	145	305	520	298	44	28	2.6
3	35	69	179	188	457	139	292	512	268	59	25	1.7
4	39	82	179	185	498	139	308	534	252	49	22	1.1
5	38	82	192	215	492	159	376	523	282	43	21	.55
6	36	82	210	278	474	185	409	441	285	34	19	.36
7	32	88	265	331	467	200	400	445	292	35	17	.21
8	31	147	331	310	451	200	391	403	282	31	16	.04
9	27	200	516	235	436	198	397	412	272	39	15	0
10	25	262	604	210	385	190	421	409	258	37	12	0
11	22	248	596	192	355	185	454	415	232	46	12	0
12	26	232	572	167	322	175	460	415	208	48	11	0
13	22	222	502	159	308	169	470	391	192	44	12	0
14	22	268	481	147	288	164	467	358	190	41	18	0
15	22	298	451	175	300	250	448	322	175	40	18	0
16	20	302	418	157	328	313	412	295	161	38	15	0
17	20	288	400	119	313	370	379	290	143	35	14	0
18	16	262	370	116	295	421	355	262	165	32	14	0
19	18	242	367	127	280	427	334	235	157	29	13	0
20	17	252	358	137	260	421	316	242	143	26	12	0
21	17	260	366	117	245	397	285	228	139	39	10	0
22	17	244	337	106	228	364	262	218	129	45	8.8	0
23	20	228	343	101	212	334	270	205	116	46	6.8	0
24	20	210	364	129	198	308	295	202	99	44	6.8	0
25	20	200	397	155	183	282	334	230	84	50	6.2	0
26	20	190	412	190	151	310	337	252	80	50	6.2	0
27	20	183	388	198	161	355	385	255	72	41	5.6	0
28	22	220	397	220	155	358	530	288	71	39	5.6	0
29	21	215	388	228	------	346	632	308	74	37	4.6	0
30	20	215	355	220	------	340	632	325	66	34	4.0	.01
31	21	------	308	212	------	334	------	325	------	35	3.5	------
TOTAL	741	5,867	11,416	5,788	8,784	8,332	11,675	10,876	5,505	1,263	416.1	9.57
MEAN	23.9	195	368	187	314	269	389	351	184	40.7	13.4	.32
MAX	39	302	604	331	498	427	632	576	316	59	34	3.0
MIN	16	27	179	101	151	139	262	202	66	26	3.5	0

CAL YR 1972 TOTAL 63,980.00 MEAN 175 MAX 4,550 MIN 16
WTR YR 1973 TOTAL 70,652.67 MEAN 194 MAX 632 MIN 0

03143500 Wills Creek below Wills Creek Dam, at Wills Creek, Ohio

LOCATION.--Lat 40°09'34", long 81°50'51", in sec. 22, T.4 N., R.6 W., Coshocton County, on left bank 1,200 ft (366 m) downstream from Wills Creek Dam, 1.3 mi (2.1 km) southeast of town of Wills Creek, 2.7 mi (4.3 km) southeast of Conesville, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--842 mi² (2,181 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1939, published as Wills Creek at Wills Creek.

GAGE.--Water-stage recorder. Datum of gage is 717.00 ft (218.542 m) above mean sea level, adjustment of 1912. Prior to Feb. 18, 1939, nonrecording gage and Feb. 18, 1939, to Sept. 30, 1949, water-stage recorder, at site 1,500 ft (457 m) downstream at same datum.

AVERAGE DISCHARGE.--35 years, 882 ft³/s (24.98 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,830 ft³/s (108 m³/s) Apr. 30, gage height, 12.56 ft (3.828 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 22.

Period of record: Maximum discharge, 6,930 ft³/s (196 m³/s) Mar. 7, 1940; maximum gage height, 17.50 ft (5.334 m) Mar. 22, 1964 (backwater from Muskingum river); minimum daily discharge, 1 ft³/s (0.028 m³/s) Aug. 10, Oct. 27-29, 1948, Jan. 28, 1952, July 6-9, 1969, Apr. 3, 1970.

Flood in March 1913 reached a discharge of 22,300 ft³/s (632 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Senecaville Lake on Seneca Fork, 80 mi (129 km) upstream, Salt Fork Reservoir, 43 mi (69 km) upstream, and Wills Creek Lake, 0.2 mi (0.3 km) upstream (see stations 03141000, 03142290, and 03143000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	114	991	1,460	1,530	659	1,520	3,760	1,350	255	179	46
2	366	176	1,110	1,400	1,800	629	1,470	3,210	1,320	239	164	45
3	362	600	1,220	1,340	2,510	605	1,360	2,550	1,170	241	149	44
4	278	1,140	1,240	1,630	3,020	605	1,340	2,380	945	289	139	42
5	207	1,210	1,230	2,170	3,100	668	1,900	2,550	991	269	125	42
6	161	937	1,280	2,550	2,620	889	2,590	2,500	1,300	241	111	49
7	137	792	1,650	2,220	2,300	1,280	2,770	2,060	1,740	221	99	45
8	117	1,200	2,320	1,650	2,490	1,340	2,350	1,890	1,530	203	86	41
9	108	1,770	3,270	1,350	2,670	1,120	2,020	1,900	1,250	176	77	39
10	98	2,280	3,610	1,100	2,540	966	2,290	2,140	1,080	174	74	41
11	88	2,280	3,710	1,090	2,180	860	2,660	2,540	854	199	69	37
12	90	1,710	3,730	1,000	1,640	800	2,810	2,510	728	227	66	35
13	89	1,390	3,500	767	1,330	758	2,850	2,300	773	257	62	33
14	89	1,580	2,980	647	1,270	744	2,790	1,890	653	253	77	33
15	92	2,180	2,720	623	1,390	1,420	2,710	1,500	605	203	159	31
16	101	2,410	2,760	578	1,680	2,260	2,390	1,360	578	167	203	30
17	99	2,210	2,670	568	1,980	2,660	2,060	1,400	538	156	235	29
18	93	1,650	2,440	555	1,670	2,800	1,880	1,370	764	168	221	34
19	90	1,300	2,000	580	1,350	2,810	1,790	1,310	863	155	180	33
20	84	1,180	1,860	650	1,240	2,600	1,580	1,230	879	135	144	31
21	86	1,340	2,230	764	1,130	2,270	1,370	1,070	806	139	119	31
22	86	1,680	2,680	882	1,060	1,990	1,150	1,080	695	180	100	28
23	89	1,620	2,770	1,130	1,050	1,710	1,030	1,020	656	327	87	31
24	91	1,420	2,470	1,720	991	1,490	1,240	917	590	603	80	32
25	91	1,260	2,090	1,920	842	1,420	2,030	893	508	623	74	32
26	96	1,170	1,780	1,700	743	1,450	2,540	1,140	440	475	68	33
27	108	1,210	1,620	1,440	689	1,880	2,620	1,450	378	390	63	33
28	113	1,380	1,590	1,470	668	2,260	3,080	1,330	325	349	61	36
29	111	1,350	1,600	1,880	------	2,090	3,580	1,340	291	297	58	44
30	105	1,090	1,580	1,960	------	1,780	3,790	1,480	265	239	55	67
31	102	------	1,520	1,720	------	1,640	------	1,390	------	199	50	------
TOTAL	4,195	41,629	68,221	40,514	47,483	46,458	65,560	55,460	24,865	8,059	3,434	1,125
MEAN	135	1,348	2,201	1,307	1,696	1,499	2,185	1,789	829	260	111	37.5
MAX	368	2,410	3,730	2,550	3,100	2,810	3,790	3,760	1,740	623	235	67
MIN	84	114	991	555	668	605	1,030	893	265	135	50	28

CAL YR 1972 TOTAL 342,561 MEAN 936 MAX 4,550 MIN 44
WTR YR 1973 TOTAL 407,003 MEAN 1,115 MAX 3,790 MIN 28

03144000 Wakatomika Creek near Frazeysburg, Ohio

LOCATION.--Lat 40°07'57", long 82°08'53", in NW 1/4 sec.13, T.3 N., R.9 W., Muskingum County, on right bank 2.0 mi (3.2 km) northwest of Frazeysburg, 2.0 mi (3.2 km) downstream from Fivemile Run, and 2.5 mi (4.0 km) upstream from Black Run.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--September 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 748.12 ft (228.027 m) above mean sea level, adjustment of 1912. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 146 ft³/s (4.135 m³/s), 14.16 in/yr (359.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,640 ft³/s (46.4 m³/s) Nov. 8, gage height, 5.48 ft (1.670 m); minimum, 9.2 ft³/s (0.26 m³/s) Sept. 22, 27, 28, 29.

Period of record: Maximum discharge, 13,700 ft³/s (388 m³/s) Jan. 22, 1959, gage height, 13.15 ft (4.008 m), from rating curve extended above 7,700 ft³/s (218 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.0 ft³/s (0.057 m³/s) Oct. 3, 1963, gage height, 0.94 ft (0.287 m).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1113: 1937(M). WSP 1555: 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	69	145	168	202	90	388	352	110	41	30	14
2	104	466	143	139	532	93	316	300	76	35	27	13
3	74	910	139	134	680	102	268	272	58	40	23	12
4	61	395	127	779	452	114	368	230	100	49	20	12
5	59	227	219	512	340	145	600	196	250	43	19	12
6	55	158	456	348	280	175	432	168	150	34	18	21
7	49	285	500	233	260	168	348	153	105	29	17	17
8	43	1,320	472	178	256	170	384	160	82	26	16	13
9	39	620	890	140	216	148	384	193	68	24	16	12
10	32	380	608	120	150	168	564	160	59	43	15	12
11	28	308	408	100	130	187	528	199	53	86	17	12
12	40	219	320	90	120	205	488	160	50	41	20	12
13	54	181	416	84	115	165	620	129	77	30	23	11
14	42	890	324	80	120	226	472	117	57	26	32	11
15	38	580	280	76	248	1,190	388	106	45	24	61	11
16	38	364	250	80	223	656	324	99	46	22	33	10
17	40	268	230	85	170	806	296	101	125	20	23	10
18	36	202	220	86	140	660	680	93	532	19	20	10
19	36	175	219	99	120	512	432	90	184	18	17	10
20	36	300	400	101	110	456	352	141	244	18	17	10
21	34	223	416	78	110	384	308	106	139	40	36	10
22	34	193	364	246	114	308	260	88	97	49	30	10
23	36	170	292	336	114	248	328	86	75	33	20	10
24	42	148	233	226	102	212	404	92	62	25	17	10
25	40	139	199	175	93	202	324	99	54	74	16	10
26	36	148	196	163	95	316	292	99	49	69	15	9.9
27	34	153	196	244	92	580	460	90	47	78	14	9.8
28	36	158	168	376	90	380	885	102	58	43	14	9.4
29	42	143	145	384	------	344	584	97	66	31	13	10
30	43	136	141	248	------	460	436	97	49	27	13	15
31	41	------	153	212	------	424	------	193	------	23	14	------
TOTAL	1,528	9,928	9,269	6,322	5,674	10,294	12,913	4,568	3,167	1,160	666	349.1
MEAN	49.3	331	299	204	203	332	430	147	106	37.4	21.5	11.6
MAX	206	1,320	890	779	680	1,190	885	352	532	86	61	21
MIN	28	69	127	76	90	90	260	86	45	18	13	9.4
CFSM	.35	2.36	2.14	1.46	1.45	2.37	3.07	1.05	.76	.27	.15	.08
IN.	.41	2.64	2.46	1.68	1.51	2.74	3.43	1.21	.84	.31	.18	.09

CAL YR 1972 TOTAL 57,467.0 MEAN 157 MAX 1,320 MIN 14 CFSM 1.12 IN 15.27
WTR YR 1973 TOTAL 65,838.1 MEAN 180 MAX 1,320 MIN 9.4 CFSM 1.29 IN 17.49

PEAK DISCHARGE (BASE, 1,600 FT³/s).--Nov. 8 (1015) 1,640 ft³/s (5.48 ft).

03144500 Muskingum River at Dresden, Ohio

LOCATION.--Lat 40°07'13", long 81°59'59", Muskingum County, on left bank 70 ft (21 m) downstream from bridge on State Highway 208, 0.5 mi (0.8 km) east of Dresden, and 0.5 mi (0.8 km) downstream from Wakatomika Creek.

DRAINAGE AREA.--5,993 mi² (15,522 km²).

PERIOD OF RECORD.--September 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.15 ft (211.272 m) above mean sea level, adjustment of 1912. Prior to Aug. 24, 1925, nonrecording gage at about same site and datum.

AVERAGE DISCHARGE.--52 years, 6,082 ft³/s (172.2 m³/s).

EXTREMES.--Current year: Maximum discharge, 22,500 ft³/s (637 m³/s) Mar. 18, gage height, 15.43 ft (4.703 m); minimum, 1,100 ft³/s (31.2 m³/s) Sept. 23.

Period of record: Maximum discharge, 100,000 ft³/s (2,830 m³/s) Aug. 9, 1935, gage height, 31.6 ft (9.63 m); minimum, 335 ft³/s (9.49 m³/s) June 25, 1925.

Flood in March 1913 reached a stage of 46.0 ft (14.02 m), present site and datum, from floodmark, discharge, 228,000 ft³/s (6,460 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 16 flood-control reservoirs at points 15 mi (24 km) to 105 mi (169 km) upstream (see pp. 80-82). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1927(M). WSP 803: 1935. WSP 1922-23, 1928(M), 1929, 1930(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,800	3,300	8,510	9,210	9,800	5,420	14,300	18,100	11,400	4,320	3,000	1,530
2	11,800	4,590	8,290	9,140	11,200	5,470	13,100	15,800	10,400	3,800	2,780	1,660
3	10,400	12,400	8,170	8,810	16,600	6,250	12,000	13,900	9,010	3,520	2,550	1,540
4	8,900	15,300	7,990	11,400	19,600	7,150	11,500	12,800	8,090	3,690	2,400	1,400
5	8,070	15,600	8,410	14,900	19,800	7,810	14,200	12,200	8,370	3,700	2,230	1,340
6	7,310	11,300	10,200	17,000	17,400	9,430	16,900	11,200	8,920	3,700	2,020	1,430
7	6,250	9,300	14,500	15,000	15,900	11,200	16,900	9,870	10,600	3,460	1,880	1,760
8	5,240	14,500	17,100	11,700	15,400	11,200	15,300	9,010	9,890	3,180	1,790	1,790
9	4,530	17,600	20,500	9,140	14,900	9,850	14,500	9,010	8,210	2,940	1,710	1,540
10	3,990	18,200	20,700	8,010	13,400	8,750	15,400	10,800	7,190	2,780	1,640	1,420
11	3,490	17,400	19,500	7,370	11,400	8,830	17,400	13,500	6,170	3,440	1,690	1,340
12	3,170	15,300	17,900	6,760	9,410	9,410	17,700	17,100	5,580	3,650	1,790	1,290
13	3,400	12,700	16,900	5,910	7,970	9,630	17,700	15,600	6,380	3,240	2,480	1,270
14	4,020	14,200	16,800	5,490	7,870	9,030	16,500	12,900	6,060	2,740	2,690	1,230
15	3,760	14,400	17,100	5,220	8,550	14,900	14,600	11,000	5,090	2,480	4,630	1,200
16	3,380	20,200	17,500	4,970	10,400	20,300	13,000	9,690	4,590	2,330	5,040	1,190
17	3,140	19,800	16,300	4,810	10,900	21,700	11,600	8,920	4,750	2,240	4,070	1,150
18	3,020	17,800	14,600	4,700	9,360	22,300	14,900	8,370	4,970	2,120	3,440	1,140
19	2,900	16,100	13,200	4,830	8,630	22,100	16,200	7,810	11,500	2,020	2,990	1,110
20	2,840	14,600	12,800	5,240	8,010	22,200	14,500	7,550	10,000	1,920	2,760	1,120
21	2,760	14,200	13,800	5,420	7,770	21,500	12,600	7,550	12,000	2,070	2,580	1,120
22	2,520	14,400	15,300	5,690	7,750	20,100	10,600	7,530	11,200	3,150	2,550	1,120
23	2,480	13,200	16,000	7,410	7,610	19,000	9,650	6,910	9,340	3,780	2,760	1,120
24	2,540	11,700	15,300	9,650	7,090	18,000	10,100	6,740	6,740	3,540	2,450	1,550
25	2,930	10,200	14,000	9,450	6,140	17,300	10,700	10,400	6,100	3,750	2,170	1,790
26	3,290	9,360	12,700	8,190	5,740	16,200	10,800	12,500	5,830	3,620	1,960	1,490
27	3,230	9,320	11,900	7,870	5,600	17,700	10,900	13,500	5,330	5,430	1,810	1,300
28	3,150	9,850	11,300	8,630	5,490	18,500	15,200	13,000	4,710	6,150	1,690	1,200
29	2,870	10,000	10,400	10,800	------	16,200	19,300	12,500	4,530	4,950	1,620	1,200
30	2,840	9,210	9,670	12,300	------	15,000	19,400	12,100	4,950	3,830	1,550	1,350
31	3,030	------	9,270	11,600	------	15,000	------	12,100	------	3,180	1,540	------
TOTAL	142,050	401,030	426,610	266,620	299,690	437,440	427,450	349,960	231,900	104,810	76,260	40,680
MEAN	4,582	13,370	13,760	8,601	10,700	14,110	14,250	11,290	7,730	3,381	2,460	1,356
MAX	11,800	20,200	20,700	17,000	19,800	22,300	19,400	18,100	12,000	6,150	5,040	1,790
MIN	2,480	3,300	7,990	4,700	5,490	5,420	9,650	6,740	4,530	1,920	1,540	1,110

CAL YR 1972 TOTAL 2,869,780 MEAN 7,841 MAX 24,000 MIN 1,330
WTR YR 1973 TOTAL 3,204,540 MEAN 8,780 MAX 22,300 MIN 1,110

03145000 South Fork Licking River near Hebron, Ohio

LOCATION.--Lat 39°59'19", long 82°28'30", in NW 1/4 sec.3, T.1 N., R.12 W., Licking County, near center span on upstream side of bridge on county road, 800 ft (244 m) downstream from Beaver Run, 2.3 mi (3.7 km) north of Hebron, and 2.5 mi (4.0 km) upstream from Ramp Creek.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--October 1939 to September 1948, July 1968 to current year.

GAGE.--Nonrecording gage. Datum of gage is 856.08 ft (260.933 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 135 ft^3/s (3.823 m^3/s).

EXTREMES.--Current year: Maximum discharge, 2,100 ft^3/s (59.5 m^3/s) July 26, gage height, 10.39 ft (3.167 m); minimum, 14 ft^3/s (0.40 m^3/s) Sept. 14, 15, 16, 17, 19, 21, 22.

Period of record: Maximum discharge, 4,120 ft^3/s (117 m^3/s) Mar. 6, 1945, gage height, 12.1 ft (3.69 m), from flood marks; no flow Aug. 22, 1942.

Flood of Jan. 21, 1959, reached a stage of 12.4 ft (3.78 m) present datum, from floodmarks; discharge 5,880 ft^3/s (167 m^3/s), by slope-area measurement.

REMARKS.--Records fair. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft (33.7 hm^3), on unnamed tributary 5.6 mi (9.0 km) upstream from station. Occasional diversion from Buckeye Lake into Jonathan Creek which bypasses station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 923: 1940. WSP 1033: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	418	202	372	277	95	42	310	126	123	33	308	21
2	133	656	380	171	596	46	219	205	67	27	374	18
3	69	1,050	382	156	734	58	118	222	53	27	356	17
4	48	755	352	818	280	74	410	212	101	87	324	17
5	41	358	378	350	174	87	682	196	579	101	53	17
6	40	276	596	190	130	133	273	188	678	44	32	17
7	37	379	618	120	118	91	165	179	700	32	30	16
8	32	1,240	598	84	118	79	288	160	207	24	27	16
9	30	1,150	1,240	70	109	57	381	118	219	24	26	16
10	26	546	848	58	69	49	660	94	195	50	24	16
11	23	450	538	46	67	49	446	111	179	502	23	16
12	31	344	432	37	47	50	294	84	196	161	25	15
13	73	312	582	33	45	44	718	57	470	56	46	15
14	47	898	500	34	48	49	428	52	253	33	372	15
15	37	704	420	36	172	567	265	51	191	27	436	14
16	33	382	360	35	205	247	226	49	243	24	150	15
17	31	298	320	37	139	750	324	50	478	21	64	14
18	30	259	300	46	97	514	600	49	943	19	38	15
19	30	243	310	56	55	318	362	46	522	18	30	15
20	32	342	692	68	50	298	298	115	662	18	30	15
21	32	308	833	47	47	298	334	98	444	71	33	14
22	30	261	578	224	44	348	310	66	270	273	26	14
23	30	234	462	380	46	238	456	55	214	546	24	16
24	38	220	392	188	40	207	480	53	151	683	22	15
25	41	214	358	107	40	202	210	55	58	1,980	20	16
26	36	219	265	90	42	411	144	53	47	1,980	19	15
27	32	258	150	228	42	626	295	60	42	1,190	19	15
28	32	402	114	420	40	302	488	112	45	660	19	15
29	43	338	94	402	------	244	250	112	53	466	18	15
30	42	378	101	161	------	595	165	154	39	344	18	19
31	41	------	146	114	------	398	------	170	------	294	21	------
TOTAL	1,638	13,676	13,711	5,083	3,689	7,471	10,599	3,352	8,422	9,815	3,007	474
MEAN	52.8	456	442	164	132	241	353	108	281	317	97.0	15.8
MAX	418	1,240	1,240	818	734	750	718	222	943	1,980	436	21
MIN	23	202	94	33	40	42	118	46	39	18	18	14

CAL YR 1972 TOTAL 60,407.4 MEAN 165 MAX 1,240 MIN 6.0
WTR YR 1973 TOTAL 80,937.0 MEAN 222 MAX 1,980 MIN 14

03146000 North Fork Licking River at Utica, Ohio

LOCATION.--Lat 40°13'41", long 82°27'06", in T.4 N., R.12 W., Licking County, on left bank at upstream side of bridge on State Highway 13 at south edge of Utica, 0.2 mi (0.3 km) downstream from unnamed right bank tributary, and 2.0 mi (3.2 km) upstream from Lake Fork.

DRAINAGE AREA.--116 mi² (300 km²).

PERIOD OF RECORD.--October 1939 to September 1948, October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 934 ft (285 m) from topographic map. Prior to September 30, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--13 years, 127 ft³/s (3.597 m³/s), 14.87 in/yr (377.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,040 ft³/s (199 m³/s) June 18 gage height, 13.04 ft (3.974 m); minimum, 5.0 ft³/s (0.141 m³/s) Sept. 20, 22, 26, 27, 28.

Period of record: Maximum discharge, 7,040 ft³/s (199 m³/s) June 18, 1973, gage height, 13.04 ft (3.975 m); minimum observed, 0.6 ft³/s (0.017 m³/s) Aug. 13, Oct. 2, 1944.

Flood of Jan. 21, 1959 reached a stage of 15.8 ft (4.82 m), from floodmarks.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	733	194	133	267	120	55	253	147	76	56	18	7.7
2	278	2,160	160	154	1,130	72	181	130	55	44	17	7.7
3	154	1,480	175	150	615	115	160	139	44	59	14	7.4
4	105	414	178	1,260	302	157	573	125	92	213	13	6.7
5	89	257	327	366	211	253	635	104	590	137	12	6.4
6	77	178	950	150	166	246	288	87	402	82	10	8.8
7	69	568	489	100	130	166	197	78	535	55	9.8	27
8	61	2,000	430	90	100	125	330	76	198	41	9.1	13
9	51	675	904	70	82	95	343	104	118	33	9.1	9.8
10	41	330	525	58	72	325	784	102	83	29	11	8.8
11	35	278	281	48	62	239	438	299	62	34	10	7.7
12	103	208	190	42	58	197	427	160	50	32	21	7.0
13	184	195	635	40	56	130	685	104	142	24	46	6.4
14	105	2,630	330	42	56	329	299	82	96	19	42	6.1
15	77	713	210	43	169	1,450	201	73	61	17	44	6.1
16	69	330	160	42	130	398	154	65	155	15	33	5.8
17	79	236	130	44	92	1,070	368	61	922	14	21	5.6
18	65	175	120	50	74	490	3,260	56	4,230	13	15	5.6
19	66	157	105	61	65	410	565	53	660	12	12	5.3
20	68	330	532	61	63	378	334	104	2,910	17	12	5.3
21	61	232	490	45	59	306	236	83	660	26	26	5.3
22	56	175	378	271	54	239	183	62	271	38	19	5.3
23	59	151	260	323	56	181	219	56	165	28	13	5.6
24	108	128	194	160	48	175	236	56	118	21	12	5.8
25	82	105	157	108	46	172	160	58	94	137	10	5.6
26	69	120	151	101	50	612	132	75	78	112	9.5	5.3
27	60	154	157	296	49	647	299	102	64	80	8.8	5.1
28	61	204	128	560	49	250	610	139	62	49	8.4	5.3
29	77	166	118	486	------	201	246	121	112	32	7.7	5.8
30	82	139	148	170	------	556	177	96	80	24	7.7	6.4
31	72	------	204	120	------	306	------	121	------	19	7.7	------
TOTAL	3,296	15,082	9,349	5,778	4,164	10,345	12,973	3,118	13,185	1,512	508.8	219.7
MEAN	106	503	302	186	149	334	432	101	440	48.8	16.4	7.32
MAX	733	2,630	950	1,260	1,130	1,450	3,260	299	4,230	213	46	27
MIN	35	105	105	40	46	55	132	53	44	12	7.7	5.1
CFSM	.91	4.34	2.60	1.60	1.28	2.88	3.72	.87	3.79	.42	.14	.06
IN.	1.06	4.84	3.00	1.85	1.34	3.32	4.16	1.00	4.23	.48	.16	.07

CAL YR 1972 TOTAL 69,800.4 MEAN 191 MAX 2,630 MIN 6.1 CFSM 1.65 IN 22.38
WTR YR 1973 TOTAL 79,530.5 MEAN 218 MAX 4,230 MIN 5.1 CFSM 1.88 IN 25.50

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	2100	8.85	3,530	6-18	0500	13.04	7,040
11-14	1230	8.87	3,550	6-20	0800	10.02	4,470
4-18	0615	11.76	5,880				

03146500 Licking River near Newark, Ohio

LOCATION.--Lat 40°03'33", long 82°20'23", in SW 1/4 T.2 N., R.11 W., Licking County, on right bank at downstream side of Stadden Bridge, 1.0 mi (1.6 km) downstream from Shawnee Run, 1.5 mi (2.4 km) upstream from Equality Run, and 3.5 mi (5.6 km) east of Newark.

DRAINAGE AREA.--537 mi^2 (1,391 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 779.02 ft (237.445 m) above mean sea level. Prior to May 9, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 554 ft^3/s (15.69 m^3/s).

EXTREMES.--Current year: Maximum discharge, 7,180 ft^3/s (203 m^3/s) June 18, gage height, 10.48 ft (3.194 m); minimum, 83 ft^3/s (2.35 m^3/s) Sept. 27.

Period of record: Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Jan. 21, 1959, gage height, 20.3 ft (6.19 m) (from high-water mark), from rating curve extended above 24,000 ft^3/s (680 m^3/s) on basis of flood-routing studies from station at Toboso; minimum, 15 ft^3/s (0.42 m^3/s) Jan. 12, 1954, result of freezeup.

REMARKS.--Records good. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft (33.7 hm^3), on South Fork 15.2 mi (24.5 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 973: 1940(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,320	648	852	1,230	618	285	1,220	774	548	280	472	126
2	936	3,390	887	780	2,890	328	964	762	394	245	520	112
3	559	5,000	915	684	3,020	411	744	792	312	289	499	107
4	411	2,170	831	3,610	1,490	515	1,480	756	383	738	472	102
5	339	1,300	1,200	2,040	1,010	624	2,660	678	1,810	630	249	100
6	301	964	2,240	1,150	798	845	1,360	612	1,560	414	171	178
7	265	1,610	2,250	792	702	630	957	570	1,320	299	159	156
8	232	5,750	1,910	642	696	543	1,240	565	859	245	153	129
9	196	3,270	3,810	450	630	444	1,480	570	630	220	144	117
10	168	1,800	2,480	370	450	548	2,510	515	521	284	141	110
11	150	1,450	1,600	300	390	678	1,960	570	449	961	141	107
12	214	1,170	1,200	270	330	606	1,580	576	411	472	153	102
13	466	992	1,910	250	330	482	2,700	433	660	275	212	98
14	378	4,700	1,630	240	350	521	1,740	372	543	220	482	100
15	270	3,040	1,270	270	732	3,490	1,180	334	416	196	750	96
16	241	1,570	1,000	260	810	1,800	950	312	543	181	374	93
17	236	1,160	880	260	526	3,720	999	312	1,600	165	236	93
18	227	936	880	295	438	2,440	4,380	285	5,670	159	185	96
19	218	838	859	361	394	1,750	2,160	290	2,360	153	159	93
20	223	1,210	2,280	378	367	1,610	1,410	477	3,750	153	162	93
21	205	1,100	2,320	301	350	1,380	1,170	460	2,290	309	162	89
22	192	887	1,740	1,010	317	1,130	999	345	1,120	515	159	91
23	200	768	1,360	1,480	323	936	1,280	295	775	919	141	93
24	265	690	1,100	887	290	852	1,600	285	606	1,300	132	91
25	285	648	957	600	275	824	992	285	430	4,180	126	89
26	245	660	880	543	285	1,400	792	372	364	2,870	120	89
27	214	750	744	1,060	285	2,560	1,110	389	324	2,020	117	87
28	214	1,010	654	1,780	275	1,270	2,490	576	364	1,090	112	87
29	245	964	582	1,880	------	1,030	1,320	588	399	750	110	93
30	290	873	600	908	------	2,150	936	576	355	594	123	91
31	270	------	780	666	------	1,540	------	756	------	499	162	------
TOTAL	10,975	51,318	42,601	25,747	19,371	37,342	46,363	15,482	31,766	21,625	7,298	3,108
MEAN	354	1,711	1,374	831	692	1,205	1,545	499	1,059	698	235	104
MAX	2,320	5,750	3,810	3,610	3,020	3,720	4,380	792	5,670	4,180	750	178
MIN	150	648	582	240	275	285	744	285	312	153	110	87

CAL YR 1972 TOTAL 270,890 MEAN 740 MAX 5,750 MIN 82
WTR YR 1973 TOTAL 312,996 MEAN 858 MAX 5,750 MIN 87

PEAK DISCHARGE (BASE, 6,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0330	10.01	6,610	6-18	1800	10.48	7,180

03147500 Licking River below Dillon Dam, near Dillon Falls, Ohio

LOCATION.--Lat 39°59'18", long 82°04'50", in T.1 N., R.8 W., Muskingum County, on left bank 500 ft (152 m) downstream from Dillon Dam, 2.0 mi (3.2 km) northwest of Dillon Falls, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--742 mi^2 (1,922 km^2).

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1962, published as Licking River at Dillon.

GAGE.--Water-stage recorder. Datum of gage is 700.0 ft (213.36 m) above mean sea level, Corps of Engineers bench mark. Prior to Oct. 27, 1940, water-stage recorder at site 2.3 mi (3.7 km) downstream at different datum. Oct. 27, 1940, to Sept. 30, 1962, water-stage recorder at site 2.6 mi (4.2 km) downstream at datum 16.3 ft (4.97 m) lower.

AVERAGE DISCHARGE.--34 years, 770 ft^3/s (21.81 m^3/s).

EXTREMES.--Current year: Maximum discharge, 4,880 ft^3/s (138 m^3/s) June 19, gage height, 9.78 ft (2.981 m); minimum, 87 ft^3/s (2.46 m^3/s) Sept. 18, 20.

Period of record: Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Jan. 22, 1959, gage height, 32.46 ft (9.894 m) (datum then in use), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 19 ft^3/s (0.54 m^3/s) Dec. 22, 1960.

Flood in March 1913 reached a stage of 37.0 ft (11.28 m), site and datum in use 1940-62, from floodmark, backwater from Muskingum River.

REMARKS.--Records good. Flow regulated by Dillon Lake since December 1960 (see station 03147300). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ohio, 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,170	482	1,050	1,200	1,010	441	2,140	2,130	855	514	690	142
2	2,380	1,610	1,060	1,380	1,760	445	1,550	1,220	618	276	665	140
3	1,310	2,740	1,080	1,060	3,020	541	534	1,220	408	280	554	140
4	545	3,170	1,100	1,930	3,200	638	167	1,100	432	615	523	140
5	386	3,320	1,140	3,210	2,870	787	1,430	952	1,130	988	402	129
6	424	3,200	1,650	3,340	2,080	1,140	3,340	871	2,320	640	229	145
7	424	3,070	2,660	2,130	1,100	945	3,020	797	2,030	419	204	207
8	326	3,170	2,890	1,130	1,110	787	1,860	810	1,270	310	204	198
9	235	3,400	270	740	1,020	700	2,140	903	737	204	204	140
10	186	3,420	266	658	870	623	2,860	846	707	248	204	140
11	164	3,340	1,580	660	677	814	3,230	699	612	838	186	140
12	225	3,250	2,900	481	625	992	2,920	809	971	850	161	140
13	370	2,910	3,620	423	580	720	3,030	705	1,140	374	198	127
14	455	2,390	4,530	443	581	638	3,080	554	812	255	402	119
15	437	2,560	4,380	480	930	2,190	2,240	483	585	255	1,080	119
16	330	2,590	4,070	489	1,200	3,220	1,610	429	508	255	790	119
17	269	2,630	2,970	465	890	2,220	1,400	435	1,330	216	302	111
18	269	3,090	1,590	468	685	1,550	2,130	464	3,350	181	195	89
19	314	3,150	1,240	528	739	1,820	3,290	465	4,810	145	232	89
20	298	2,670	1,950	597	651	2,390	3,310	613	4,240	148	252	101
21	239	2,530	3,050	560	601	2,650	2,850	676	4,180	500	346	121
22	235	1,950	3,070	705	529	3,060	1,410	582	3,350	572	283	121
23	273	1,150	2,300	1,670	482	3,300	1,460	399	1,620	892	178	124
24	290	1,040	1,700	1,960	532	3,210	2,220	419	690	802	140	124
25	298	948	1,330	1,270	514	2,580	1,870	473	586	2,000	161	104
26	294	903	1,230	876	477	2,270	1,150	470	473	3,140	170	92
27	280	902	1,140	977	476	2,760	1,550	530	437	3,570	170	92
28	276	1,080	986	1,770	475	2,810	2,360	682	398	3,090	151	92
29	276	1,330	779	3,060	------	1,920	2,570	801	514	1,260	140	94
30	273	1,110	767	1,920	------	2,050	2,530	800	590	750	140	94
31	330	------	901	1,050	------	2,650	------	823	------	620	140	------
TOTAL	14,581	69,105	59,249	37,630	29,684	52,861	65,251	23,160	41,703	25,207	9,696	3,733
MEAN	470	2,304	1,911	1,214	1,060	1,705	2,175	747	1,390	813	313	124
MAX	2,380	3,420	4,530	3,340	3,200	3,300	3,340	2,130	4,810	3,570	1,080	207
MIN	164	482	266	423	475	441	167	399	398	145	140	89

CAL YR 1972 TOTAL 361,788 MEAN 988 MAX 4,570 MIN 69
WTR YR 1973 TOTAL 431,860 MEAN 1,183 MAX 4,810 MIN 89

03150000 Muskingum River at McConnelsville, Ohio

LOCATION.--Lat 39°38'42", long 81°51'00", in SE 1/4 sec.11, T.10 N., R.12 W., Morgan County, on left bank just upstream from Dam 7, at McConnelsville, and 3.5 mi (5.6 km) downstream from Oilspring Run.

DRAINAGE AREA.--7,422 mi² (19,223 km²).

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 650.31 ft (198.214 m) above mean sea level, adjustment of 1912. Prior to July 27, 1922, nonrecording gage at site 0.5 mi (0.8 km) upstream at same datum. July 27, 1922, to Aug. 10, 1926, nonrecording gage and Aug. 11, 1926, to Sept. 8, 1959, water-stage recorder at present site and datum. Sept. 9, 1959, to July 18, 1960, nonrecording gage at site 0.5 mi (0.8 km) upstream at same datum.

AVERAGE DISCHARGE.--52 years, 7,203 ft³/s (204.0 m³/s).

EXTREMES.--Current year: Maximum discharge, 29,400 ft³/s (833 m³/s) Dec. 9, gage height 8.97 ft (2.734 m); minimum, 1,130 ft³/s (32.0 m³/s) Sept. 20, gage height, 1.54 ft (0.469 m).

Period of record: Maximum discharge, 126,000 ft³/s (3,570 m³/s) Jan. 26, 1937, gage height, 21.14 ft (6.443 m); minimum, 218 ft³/s (6.17 m³/s) Aug. 25, 1930, gage height, -0.65 ft (-0.198 m), from rating curve extended below 470 ft³/s (13.3 m³/s).

Flood of Mar. 27, 1913 reached a stage of 33.5 ft (10.21 m), discharge, 270,000 ft³/s (7,650 m³/s), computed by Corps of Engineers.

REMARKS.--Records good. Flow regulated by 17 flood-control reservoirs 36.6 mi (58.9 km) to 148 mi (238 km) upstream from station (see pp. 80-82). Some regulation at low flow by powerplant 19 mi (31 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 783: 1913(M). WSP 853: 1933(M). WSP 1173: 1922-24, 1928(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,800	4,460	10,700	11,300	12,600	6,420	18,000	22,000	13,000	5,600	4,210	1,770
2	14,200	6,090	10,200	11,500	14,500	6,260	16,600	18,900	12,000	4,740	3,980	1,790
3	12,900	12,800	10,100	11,000	19,300	6,680	14,300	17,500	10,200	4,240	3,580	1,850
4	10,300	17,900	9,960	14,500	22,800	7,980	14,400	15,700	9,360	4,820	3,250	1,720
5	9,030	18,300	10,200	18,100	23,200	9,360	16,800	14,500	11,400	5,330	3,040	1,560
6	8,290	16,000	12,600	20,300	21,500	10,800	20,500	13,500	11,700	5,040	2,640	1,560
7	7,350	13,900	16,700	19,300	19,000	12,500	21,200	12,100	13,000	4,390	2,390	1,760
8	6,290	19,500	22,200	14,700	18,100	13,000	20,000	11,500	12,600	4,040	2,260	2,040
9	5,320	21,100	26,400	11,600	17,500	11,900	18,700	10,600	10,100	3,590	2,160	1,890
10	4,630	21,900	23,100	9,740	15,800	10,600	20,000	11,000	8,650	3,410	2,080	1,690
11	4,110	21,500	21,900	8,650	13,800	10,100	21,500	13,000	7,700	3,900	2,040	1,550
12	3,860	19,700	22,100	8,330	11,600	11,000	22,100	18,000	8,150	4,980	2,050	1,480
13	3,890	17,300	21,900	7,310	10,000	11,200	22,800	17,000	9,330	4,230	2,330	1,420
14	4,440	20,000	22,000	6,940	9,590	10,600	21,900	15,300	8,260	3,540	3,240	1,410
15	4,600	21,900	22,400	6,650	11,100	15,100	19,000	13,000	6,870	3,190	5,090	1,350
16	4,160	22,900	23,100	6,320	12,500	22,900	16,500	11,400	5,960	2,920	6,490	1,300
17	3,750	22,800	21,500	6,090	13,000	26,000	14,800	10,500	7,040	2,770	5,330	1,250
18	3,530	22,000	18,000	5,900	11,500	25,200	14,800	9,810	13,200	2,580	4,240	1,270
19	3,500	20,300	16,100	6,260	10,700	24,400	19,900	9,140	16,700	2,320	3,670	1,190
20	3,400	19,500	17,100	6,740	9,850	24,900	19,000	9,250	14,600	2,390	3,380	1,170
21	3,280	17,700	18,000	6,780	9,290	24,600	17,100	9,290	16,500	3,510	3,390	1,210
22	3,100	17,500	19,400	8,400	9,030	23,500	14,000	9,060	15,600	5,460	3,140	1,200
23	3,030	15,800	19,500	10,200	8,690	22,500	14,700	8,650	12,900	5,990	3,030	1,290
24	3,030	14,200	18,400	12,400	8,360	21,900	16,100	8,220	8,930	5,380	2,940	1,360
25	3,230	12,700	16,900	12,200	7,560	20,600	14,600	10,400	7,440	10,200	2,650	1,840
26	3,700	11,600	15,400	10,700	7,070	20,900	13,800	13,600	6,820	9,670	2,420	1,790
27	3,780	11,300	14,500	10,700	6,910	20,200	15,200	15,100	6,550	8,850	2,250	1,550
28	3,780	11,700	13,600	11,800	6,780	21,800	22,000	15,100	5,790	10,300	2,110	1,380
29	3,600	12,400	12,600	14,400	------	20,100	23,700	14,200	5,510	7,740	1,970	1,360
30	3,400	11,800	11,400	15,600	------	18,000	23,700	13,500	5,740	5,540	1,860	1,480
31	3,450	------	11,300	13,700	------	18,500	------	13,500	------	4,480	1,700	------
TOTAL	166,730	496,550	529,260	338,110	361,630	509,500	547,700	404,320	301,600	155,140	94,910	45,480
MEAN	5,378	16,550	17,070	10,910	12,920	16,440	18,260	13,040	10,050	5,005	3,062	1,516
MAX	14,200	22,900	26,400	20,300	23,200	26,000	23,700	22,000	16,700	10,300	6,490	2,040
MIN	3,030	4,460	9,960	5,900	6,780	6,260	13,800	8,220	5,510	2,320	1,700	1,170

CAL YR 1972 TOTAL 3,491,660 MEAN 9,540 MAX 30,100 MIN 1,520
WTR YR 1973 TOTAL 3,950,930 MEAN 10,820 MAX 26,400 MIN 1,170

03150250 Meigs Creek near Beverly, Ohio

LOCATION.--Lat 39°36'00", long 81°42'42", in SE 1/4 sec.25, T.10 N., R.11 W., Morgan County, on right bank 400 ft (122 m) downstream from County Road bridge at Mill Grove, 0.4 mi (0.6 km) downstream from Perry Run, 0.5 mi (0.8 km) upstream from Onion Run, 2.2 mi (3.5 km) upstream from mouth, and 5.3 mi (8.5 km) northwest of Beverly.

DRAINAGE AREA.--136 mi² (352 km²).

PERIOD OF RECORD.--March 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.19 ft (187.205 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 3,870 ft³/s (110 m³/s) Dec. 9, gage height, 16.73 ft (2.051 m); minimum, 4.5 ft³/s (0.13 m³/s) Sept. 28.
Period of record: Maximum discharge, 3,870 ft³/s (110 m³/s) Dec. 9, 1972, gage height, 16.73 ft (5.099 m); minimum discharge, 4.5 ft³/s (0.13 m³/s) Sept. 28, 1972.

REMARKS.--Record good except for period Nov. 1 to May 15, which is poor. Water-quality records for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	227	185	175	243	115	130	400	148	36	39	6.3
2	78	260	170	153	885	113	160	330	121	33	37	10
3	51	200	145	205	669	130	180	678	106	33	30	9.0
4	26	150	138	819	540	143	783	445	119	114	25	7.9
5	21	110	163	478	350	303	540	338	380	168	21	6.3
6	19	76	618	370	240	280	370	270	203	69	18	5.7
7	17	301	450	230	350	215	300	225	170	54	16	5.4
8	15	1,240	1,720	190	450	190	889	285	155	40	18	5.4
9	14	350	2,260	170	350	150	651	639	153	27	15	6.0
10	13	220	800	150	270	135	798	300	138	40	13	6.3
11	12	160	600	130	220	125	700	400	117	173	12	6.3
12	28	140	430	115	200	143	560	300	93	64	11	5.9
13	39	100	620	105	183	130	600	230	148	50	11	5.6
14	30	350	440	100	243	113	520	200	75	41	13	6.5
15	22	220	580	105	518	275	430	175	57	35	45	6.6
16	18	170	760	111	300	696	350	150	54	30	28	6.8
17	17	140	560	119	240	1,110	320	134	223	23	23	7.1
18	16	100	320	121	210	740	270	150	255	19	23	6.2
19	15	84	250	203	185	540	230	121	150	14	19	5.6
20	14	440	714	190	178	440	200	408	130	13	16	6.8
21	14	300	568	119	160	370	170	220	140	112	20	13
22	14	200	600	408	150	300	160	150	84	333	18	8.6
23	15	170	470	363	140	250	724	126	60	138	14	7.6
24	17	150	370	270	130	200	940	175	47	75	11	9.2
25	17	133	310	203	120	180	568	268	39	303	11	7.2
26	16	233	290	175	135	360	493	258	39	130	10	5.9
27	15	253	303	505	135	240	1,360	215	33	89	8.8	4.8
28	15	238	243	410	123	160	840	385	33	63	8.1	4.8
29	16	250	208	350	------	150	560	245	42	52	7.2	7.7
30	17	208	185	280	------	140	480	215	42	43	7.1	39
31	19	------	183	245	------	130	------	205	------	35	6.6	------
TOTAL	744	7,173	15,661	7,567	7,917	8,566	15,276	8,640	3,554	2,449	554.8	239.5
MEAN	24.0	239	505	244	283	276	509	279	118	79.0	17.9	7.98
MAX	104	1,240	2,260	819	885	1,110	1,360	678	380	333	45	39
MIN	12	76	138	100	120	113	130	121	33	13	6.6	4.8
CFSM	.18	1.76	3.71	1.79	2.08	2.03	3.74	2.05	.87	.58	.13	.06
IN.	.20	1.96	4.28	2.07	2.17	2.34	4.18	2.36	.97	.67	.15	.07

WTR YR 1973 TOTAL 78,341.3 MEAN 215 MAX 2,260 MIN 4.8 CFSM 1.58 IN 21.43

Reservoirs in Muskingum River basin

03119500 BOLIVAR RESERVOIR.--Lat 40°38'56", long 81°25'57", Tuscarawas County, in gate house of dam on Sandy Creek, 1.1 mi (1.8 km) east of Bolivar. Drainage area, 504 mi^2 (1,305 km^2). Period of record, June 1938 to current year. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 895.0 ft (272.80 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 15,390 acre-ft (19.0 hm^3) Mar. 19, elevation, 923.00 ft (281.330 m); minimum, 113 acre-ft (139,000 m^3) Sept. 22, elevation, 997.10 ft (303.916 m). Extremes for period of record: Maximum contents, 63,320 acre-ft (78.1 hm^3) Jan. 26, 1959, elevation, 944.01 ft (287.734 m); minimum, 62 acre-ft (76,400 m^3) Oct. 9, 1933, elevation, 896.30 ft (273.192 m).

Reservoir is formed by earthfill dam completed Nov. 15, 1937. Usable capacity 149,500 acre-ft (184 hm^3) between elevations 895.0 ft (272.80 m) (lowest outlet), and 962.0 ft (293.22 m) (crest of spillway). Dead storage below elevation 895.0 ft (272.80 m), 113 acre-ft (139,000 m^3). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03120000 LEESVILLE LAKE.--Lat 40°28'15", long 81°11'40", in E 1/4 sec. 36, T.13 N., R.6 W., Carroll County, in gate house of dam on McGuire Creek, 1.4 mi (2.3 km) northeast of Leesville. Drainage area, 48.3 mi^2 (125 km^2). Period of record, April 1938 to current year. Prior to October 1971 published as Leesville Reservoir. Month-end contents prior to September 1939, published in WSP 1305. Water-stage recorder. Datum of gage is 928.0 ft (282.85 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 19,740 acre-ft (24.3 hm^3) May 1, elevation, 963.57 ft (293.696 m); minimum, 13,630 acre-ft (16.8 hm^3) Jan. 22, elevation, 956.95 ft (291.678 m). Extremes for period of record: Maximum contents, 26,430 acre-ft (32.6 hm^3) Apr. 17, 1948, elevation, 969.59 ft (295.531 m); minimum, 41 acre-ft (50,600 m^3) Oct. 9-25, 1939, elevation, 928.38 ft (282.970 m), but may have been less during period Sept. 18-24, 1940.

Lake is formed by earthfill dam completed Oct. 22, 1937. Usable capacity 37,070 acre-ft (45.7 hm^3) between elevations 928.0 ft (282.85 m) (lowest outlet), and 977.5 ft (297.94 m) (crest of spillway), of which 19,170 acre-ft (23.6 hm^3) is in the conservation pool. Dead storage below elevation 928.0 ft (282.85 m), 329 acre-ft (406,000 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduit through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03121000 ATWOOD LAKE.--Lat 40°31'34", long 81°17'09", in SE 1/4 sec. 28, T.15 N., R.7 W., Tuscarawas County, in gate house of dam on Indian Fork, 1.5 mi (2.4 km) southeast of New Cumberland. Drainage area, 69.9 mi^2 (181 km^2). Period of record, June 1938 to current year. Prior to October 1971 published as Atwood Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 890.0 ft (271.27 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Prior to Oct. 11, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 26,470 acre-ft (32.6 hm^3) Mar. 20, elevation, 929.80 ft (283.403 m); minimum, 22,770 acre-ft (28.1 hm^3) Sept. 22, elevation, 927.45 ft (282.687 m). Extremes for period of record: Maximum contents, 35,210 acre-ft (43.4 hm^3) Feb. 8, 1952, elevation, 934.51 ft (284.839 m); minimum, 2.2 acre-ft (2,710 m^3) Jan. 8, 9, 1940, elevation, 890.36 ft (271.382 m).

Lake is formed by earthfill dam completed Sept. 23, 1937. Usable capacity 49,690 acre-ft (61.3 hm^3) between elevations 890.0 ft (271.27 m) (lowest outlet), and 941.0 ft (286.82 m) (crest of spillway), of which 23,590 acre-ft (29.1 hm^3) is in the conservation pool. Dead storage below elevation 890.0 ft (271.27 m), 8 acre-ft (9,860 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03122000 DOVER LAKE.--Lat 40°33'29", long 81°24'46", in SW 1/4 sec. 6, T.9 N., R.1 W., Tuscarawas County, in gate house of dam on Tuscarawas River, 4.2 mi (6.8 km) northeast of Dover. Drainage area, 1,404 mi^2 (3,636 km^2). Period of record, June 1938 to current year. Prior to October 1971 published as Dover Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 858.0 ft (261.52 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Sept. 22, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 7,280 acre-ft (8.98 hm^3) Mar. 18, elevation, 881.51 ft (268.684 m); no contents several days in September. Extremes for period of record: Maximum contents, 109,000 acre-ft (134 hm^3) July 12, 1969, elevation, 905.00 ft (275.844 m); no contents several days during most years.

Lake is formed by concrete dam completed Nov. 29, 1937. Usable capacity 203,000 acre-ft (250 hm^3) between elevations 862.0 ft (262.74 m) (lowest outlet), and 916.0 ft (279.20 m) (crest of spillway), of which 1,000 acre-ft (1.23 hm^3) is in conservation pool. No dead storage. Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03123500 BEACH CITY LAKE.--Lat 40°38'06", long 81°33'30", in T.10 N., R.3 W., Tuscarawas County, in gate house of dam on Sugar Creek, 1.6 mi (2.6 km) southeast of Beach City. Drainage area, 300 mi^2 (777 km^2). Period of record, June 1938 to current year. Prior to October 1971 published as Beach City Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 931.0 ft (283.77 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Feb. 4, 1939, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 8,060 acre-ft (9.94 hm^3) Mar. 18, elevation, 956.17 ft (291.440 m); minimum, 1,860 acre-ft (2.29 hm^3) Sept. 22, elevation, 948.35 ft (289.057 m). Extremes for period of record: Maximum contents, 70,120 acre-ft (86.5 hm^3) July 6, 1969, elevation, 976.25 ft (297.561 m); minimum, 1.1 acre-ft (1,360 m^3) several days in September and October 1939, elevation, 931.60 ft (283.952 m).

Lake is formed by earthfill dam completed Aug. 13, 1937. Usable capacity 71,650 acre-ft (88.3 hm^3) between elevations 931.0 ft (283.77 m) (lowest outlet), and 976.5 ft (297.64 m) (crest of spillway), of which 1,700 acre-ft (2.10 hm^3) is in conservation pool. No dead storage. Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03125500 PIEDMONT LAKE.--Lat 40°11'31", long 81°12'57", in SE 1/4 sec. 35, T.10 N., R.6 W., Harrison County, in gate house of dam on Stillwater Creek, 0.4 mi (0.6 km) west of Piedmont. Drainage area, 85.9 mi^2 (222 km^2). Period of record, May 1938 to current year. Prior to October 1971 published as Piedmont Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 881.75 ft (268.757 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 37,730 acre-ft (46.5 hm^3) May 5, elevation, 914.82 ft (278.837 m); minimum, 25,010 acre-ft (30.8 hm^3) Feb. 10, elevation, 908.99 ft (277.060 m). Extremes for period of record: Maximum contents, 46,650 acre-ft (57.5 hm^3) June 11, 12, 1947, elevation, 918.33 ft (279.907 m); minimum, 26 acre-ft (32,100 m^3) Sept. 18-25, 1939, elevation, 882.25 ft (268.910 m).

Lake is formed by earthfill dam completed May 22, 1937. Usable capacity 64,990 acre-ft (80.1 hm^3) between elevations 881.75 ft (lowest outlet), and 924.6 ft (281.82 m) (crest of spillway), of which 33,500 acre-ft (41.3 hm^3) is in the conservation pool. Dead storage below elevation 881.75 ft (268.757 m), 71 acre-ft (87,500 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03126500 CLENDENING LAKE.--Lat 40°16'10", long 81°16'43", in NW 1/4 sec. 16, T.12 N., R.7 W., Harrison County, in gate house of dam on Brushy Fork, 0.6 mi (1.0 km) east of Tippecanoe. Drainage area, 69.3 mi^2 (179 km^2). Period of record, June 1938 to current year. Prior to October 1971 published as Clendening Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 862.00 ft (262.738 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to July 11, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 28,580 acre-ft (35.2 hm^3) May 1, elevation, 899.11 ft (274.049 m); minimum, 18,190 acre-ft (22.4 hm^3) Feb. 12-18, elevation, 892.80 ft (272.125 m). Extremes for period of record: Maximum contents, 38,060 acre-ft (46.9 hm^3) Feb. 7, 1952, elevation, 903.85 ft (275.493 m); minimum, 5.9 acre-ft (7,270 m^3) Nov. 4, 1938, elevation, 862.33 ft (262.838 m).

Lake is formed by earthfill dam completed Nov. 1, 1937. Usable capacity 53,970 acre-ft (66.5 hm^3) between elevations 862.0 ft (262.74 m) (lowest outlet), and 910.5 ft (277.52 m) (crest of spillway), of which 26,470 acre-ft (32.6 hm^3) is in the conservation pool. Dead storage below elevation 862.0 ft (262.74 m), 27 acre-ft (33,300 m^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

Reservoirs in Muskingum River basin--Continued

03128000 TAPPAN LAKE.--Lat 40°21'20", long 81°13'30", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, in gate house of dam on Little Stillwater Creek, 0.9 mi (1.4 km) west of Tappan. Drainage area, 71.1 mi² (184 km²). Period of record, May 1938 to current year. Prior to October 1971 published as Tappan Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 870.0 ft (265.18 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 36,420 acre-ft (44.9 hm³) May 29, elevation, 899.86 ft (274.277 m); minimum, 23,910 acre-ft (29.5 hm³) Nov. 30, Dec. 1, 2, elevation, 894.13 ft (272.531 m). Extremes for period of record: Maximum contents, 48,440 acre-ft (59.7 hm³) Feb. 5, 6, 1952, elevation, 904.53 ft (275.701 m); no contents Sept. 29, 1939.

Lake is formed by earthfill dam completed Oct. 24, 1936. Usable capacity 61,500 acre-ft (75.8 hm³) between elevations 870.0 ft (265.18 m) (lowest outlet), and 909.0 ft (277.06 m) (crest of spillway), of which 35,070 acre-ft (43.2 hm³) is in conservation pool. Dead storage below elevation 870.0 ft (265.18 m), 46 acre-ft (56,700 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03129500 CHARLES MILL LAKE.--Lat 40°44'26", long 82°21'47", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, in gate house of dam on Black Fork, 2.5 mi (4.0 km) south of Mifflin. Drainage area, 215 mi² (557 km²). Period of record, April 1938 to current year. Prior to October 1971 published as Charles Mill Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 987.0 ft (300.84 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 22,460 acre-ft (27.7 hm³) Mar. 20, 21, elevation, 1,004.95 ft (306.309 m); minimum, 6,110 acre-ft (7.53 hm³) Jan. 21, Mar. 1, elevation, 996.25 ft (303.657 m). Extremes for period of record: Maximum contents, 53,440 acre-ft (65.9 hm³) Jan. 25, 1959, elevation, 1,013.53 ft (308.924 m); minimum, 733 acre-ft (904,000 m³) Dec. 24, 1965, elevation, 989.69 ft (301.718 m).

Lake is formed by earthfill dam completed Aug. 17, 1936. Usable capacity 87,690 acre-ft (108 hm³) between elevations 987.0 ft (300.84 m) (lowest outlet), and 1,020.0 ft (310.90 m) (crest of spillway), of which 7,090 acre-ft (8.74 hm³) is in the conservation pool. Dead storage below elevation 987.0 ft (300.84 m), 310 acre-ft (382,000 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam or through bypass gate around conservation weir. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03133000 PLEASANT HILL LAKE.--Lat 40°37'26", long 82°19'33", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, in gate house of dam on Clear Fork, 2.5 mi (4.0 km) south of Perrysville. Drainage area, 197 mi² (510 km²). Period of record, May 1938 to current year. Prior to October 1971 published as Pleasant Hill Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 971.75 ft (296.189 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 18,530 acre-ft (22.8 hm³) Mar. 19, 20, elevation, 1,025.39 ft (312.539 m); minimum, 3,990 acre-ft (4.92 hm³) Nov. 9, elevation, 1,004.43 ft (306.150 m). Extremes for period of record: Maximum contents, 43,530 acre-ft (53.7 hm³) Jan. 23, 1959, elevation, 1,044.01 ft (318.214 m); minimum, 74 acre-ft (91,200 m³) May 8, 1938, elevation, 976.63 ft (297.677 m).

Lake is formed by earthfill dam completed Feb. 1, 1938. Usable capacity 87,640 acre-ft (108 hm³) between elevations 971.75 ft (296.189 m) (lowest outlet), and 1,065.0 ft (324.61 m) (crest of spillway), of which 13,510 acre-ft (16.7 hm³) is in the conservation pool. Dead storage below elevation 971.75 ft (296.189 m), 12 acre-ft (14,800 m³). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in tunnel through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03134500 MOHICANVILLE RESERVOIR.--Lat 40°43'28", long 82°09'08", in SE 1/4 sec. 34, T.21 N., R.15 W., Ashland County, in gate house of dam on Lake Fork, 2 mi (3 km) east of Mohicanville. Drainage area, 271 mi² (702 km²). Period of record, May 1939 to current year. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 932.0 ft (284.07 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 12,540 acre-ft (15.5 hm³) Mar. 18, elevation, 947.78 ft (288.883 m); minimum, 35 acre-ft (43,200 m³) Sept. 17, elevation, 933.22 ft (284.445 m). Extremes for period of record: Maximum contents, 96,330 acre-ft (119 hm³) July 7, 1969, elevation, 962.35 ft (293.324 m); minimum, 9.9 acre-ft (12,200 m³) several days in 1941, 1944, 1945; minimum elevation, 932.38 ft (284.189 m) several days in August, September, October, 1941.

Reservoir is formed by earthfill dam completed Dec. 24, 1936. Usable capacity 102,000 acre-ft (126 hm³) between elevations 932.0 ft (284.07 m) (lowest outlet), and 963.0 ft (293.52 m) (crest of spillway). Dead storage below elevation 932.0 ft (284.07 m), 18 acre-ft (22,200 m³). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03136300 NORTH BRANCH KOKOSING RIVER LAKE.--Lat 40°30'24", long 82°34'36", in SW 1/4 sec. 14, T.6 N., R.10 W., Knox County, at dam on North Branch Kokosing River, 2.5 mi (4.0 km) northwest of Fredericktown, and 3.0 mi (4.8 km) upstream from East Branch Kokosing River. Drainage area, 44.5 mi² (115 km²). Period of record, July 1973 to September 1973. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for the period of July to September 1973: Maximum contents, 1,460 acre-ft (1.80 hm³) July 26, elevation, 1,123.80 ft (342.534 m); minimum, 980 acre-ft (1.21 hm³) Sept. 18-21, elevation 1,121.24 ft (341.754 m).

Lake is formed by earth dam, with uncontroled saddle spillway; storage began June 1972. Usable capacity, 940 acre-ft (1.16 hm³) between elevation, 1,108.0 ft (337.72 m) (invert of lowest outlet), and 1,121.0 ft (341.68 m) (uncontroled entrance to outlet works). Dead storage below elevation, 1,108.0 ft (337.72 m), 103 acre-ft (127,000 m³). Additional flood retention capacity 13,880 acre-ft (17.1 hm³) between 1,121.0 ft (341.68 m) and 1,146.0 ft (349.30 m) (crest of spillway). Figures given herein represent usable contents. Reservoir is used for flood control, recreation, and conservation. Lowest outlet is normally closed to maintain a pool elevation of 1,121.0 ft (341.68 m). Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03138000 MOHAWK RESERVOIR.--Lat 40°21'12", long 82°05'12", in SW 1/4 sec. 6, T.6 N., R.8 W., Coshocton County, in gate house of dam on Walhonding River, 1.5 mi (2.4 km) northwest of Nellie. Drainage area, 1,500 mi² (3,885 km²). Period of record, April 1938 to current year. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 799.2 ft (243.60 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 20,080 acre-ft (24.8 hm³) Mar. 19, elevation, 832.87 ft (253.859 m); minimum, 173 acre-ft (213,000 m³) several days in August and September, elevation, 802.64 ft (244.645 m). Extremes for period of record: Maximum contents, 176,000 acre-ft (217 hm³) Jan. 25, 1959, elevation, 873.94 ft (266.377 m); minimum, 44 acre-ft (54,300 m³) Sept. 21, Oct. 4, 1955; minimum elevation, 800.35 ft (243.947 m) Oct. 4, 1955, from graph based on gage readings.

Reservoir is formed by earthfill dam completed Sept. 22, 1937. Usable capacity 284,900 acre-ft (351 hm³) between elevations 799.2 ft (243.60 m) (lowest outlet), and 890.0 ft (271.27 m) (crest of spillway). Dead storage below elevation 799.2 ft (243.60 m), 59 acre-ft (72,700 m³). Figures given herein represent usable contents. Reservoir is used for flood control only. There are no gates on spillway and all regulation is done by gates in tunnels through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03141000 SENECAVILLE LAKE.--Lat 39°55'31", long 81°26'06", Guernsey County, in gate house of dam on Seneca Fork, 1.5 mi (2.4 km) southeast of Senecaville. Drainage area, 118 mi² (306 km²). Period of record, June 1938 to current year. Prior to October 1971 published as Senecaville Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 812.05 ft (247.513 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Prior to Sept. 21, 1938, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 50,670 acre-ft (62.5 hm³) Apr. 30, elevation, 834.68 ft (254.410 m); minimum, 27,210 acre-ft (33.5 hm³) Feb. 14, elevation, 827.75 ft (252.298 m). Extremes for period of record: Maximum contents, 61,430 acre-ft (75.7 hm³) Mar. 24, 1945, elevation, 837.27 ft (255.200 m); minimum, 360 acre-ft (444,000 m³) Oct. 22, 23, 1939, elevation, 812.53 ft (247.659 m).

Lake is formed by earthfill dam completed May 18, 1937. Usable capacity 86,380 acre-ft (106 hm³) between elevations 812.05 ft (247.513 m) (lowest outlet), and 842.5 ft (256.79 m) (top of taintor gates), of which 41,300 acre-ft (50.9 hm³) is in conservation pool. Usable capacity at elevation, 831.0 ft (253.29 m) (crest of spillway), 37,180 acre-ft (45.8 hm³). Dead storage below elevation 812.05 ft (247.513 m), 1,950 acre-ft (2.40 hm³). Figures given herein represent usable contents. Taintor gates normally remain closed to maintain conservation pool at elevation 832.2 ft (253.65 m) and outflow is controlled by gates in conduits through dam. Lake is used for flood control and conservation. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

Reservoirs in Muskingum River basin--Continued

03142290 SALT FORK RESERVOIR.--Lat 40°06'15", long 81°33'15", in T.3 N., R.3 W., Guernsey County, at outlet works near left end of dam on Salt Fork, 0.8 mi (1.3 km) upstream from mouth, and 5.0 mi (8.0 km) north of Cambridge. Drainage area, 159 mi^2 (412 km^2). Period of record, September 1968 to current year. Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 51,825 acre-ft (63.9 hm^3) Apr. 29, elevation, 803.05 ft (244.770 m); minimum, 41,500 acre-ft (51.2 hm^3) Sept. 28, elevation, 799.85 ft (243.794 m). Extremes for period of record: Maximum contents, 55,470 acre-ft (68.4 hm^3) Apr. 25, 1970, elevation, 804.09 ft (245.087 m); minimum, 12,200 acre-ft (15.0 hm^3) Oct. 17, 1968, elevation, 786.53 ft (239.734 m).

Reservoir is formed by earthfill dam with concrete morning-glory spillway and emergency spillway cut in natural rock; storage began Dec. 30, 1967. Usable capacity, 41,950 acre-ft (51.7 hm^3) between elevations 772.5 ft (235.46 m) (invert of lowest outlet), and 800.0 ft (243.84 m) (crest of morning-glory spillway). Dead storage below elevation 772.5 ft (235.46 m), 1,250 acre-ft (1.54 hm^3). Additional flood-retention capacity, 28,600 acre-ft (35.3 hm^3) between elevations 800.0 ft (243.84 m) and 808.0 ft (246.28 m) (crest of emergency spillway). Figures given herein represent usable contents. There are no gates on spillway and all regulation is done by conduits through dam. Reservoir is used for recreation, flood control, and future municipal supply. Capacity curve furnished by State Department of Natural Resources.

03143000 WILLS CREEK LAKE.--Lat 40°09'25", long 81°51'00", in SE 1/4 sec. 23, T.4 N., R.6 W., Coshocton County, in gate house of dam on Wills Creek, 1.3 mi (2.1 km) south of village of Wills Creek. Drainage area, 842 mi^2 (2,181 km^2). Period of record, April 1938 to current year. Prior to October 1971 published as Wills Creek Reservoir. Month-end contents prior to September 1939 published in WSP 1305. Water-stage recorder. Datum of gage is 733.0 ft (223.42 m) above mean sea level, adjustment of 1912; gage readings have been reduced to elevations above mean sea level. Extremes for current year: Maximum contents, 11,180 acre-ft (13.8 hm^3) May 1, elevation, 747.09 ft (227.713 m); minimum, 3,820 acre-ft (4.71 hm^3) Sept. 15, 16, elevation, 741.28 ft (225.942 m). Extremes for period of record: Maximum contents, 169,700 acre-ft (209 hm^3) Mar. 15, 1964, elevation, 776.73 ft (236.747 m); minimum, 300 acre-ft (370,000 m^3) Oct. 22, 23, 1939, elevation, 734.10 ft (223.754 m).

Lake is formed by earthfill dam completed Oct. 13, 1937. Usable capacity, 194,400 acre-ft (240 hm^3) between elevations 733.0 ft (223.42 m) (lowest outlet), and 779.0 ft (237.44 m) (crest of spillway), of which 4,420 acre-ft (5.45 hm^3) is in conservation pool. Dead storage below elevation 733.0 ft (223.42 m), 1,580 acre-ft (1.95 hm^3). Figures given herein represent usable contents. Lake is used for flood control and conservation. There are no gates on spillway and all regulation is done by gates in conduits through dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03147300 DILLON LAKE.--Lat 39°59'32", long 82°04'57", in T.1 N., R.8 W., Muskingum County, in outlet works of control tower at dam on Licking River, 2 mi (3 km) northwest of Dillon Falls, and 5.8 mi (9.3 km) upstream from mouth. Drainage area, 742 mi^2 (1,922 km^2). Period of record, January 1961 to current year. Prior to October 1971 published as Dillon Reservoir. Water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 35,740 acre-ft (44.1 hm^3) Dec. 11, elevation, 746.03 ft (227.390 m); minimum, 12,930 acre-ft (15.9 hm^3) Jan. 30, elevation, 733.85 ft (223.677 m). Extremes for period of record: Maximum contents, 142,600 acre-ft (176 hm^3) Mar. 13, 1964, elevation, 772.88 ft (235.574 m); minimum observed, 208 acre-ft (256,000 m^3) Mar. 31, 1961, elevation, 710.94 ft (216.694 m).

Lake formed by earth dam with concrete spillway; closure of dam made July 29, 1959; storage to maintain conservation pool began Dec. 17, 1960. Usable capacity 274,000 acre-ft (338 hm^3) between elevations 704.0 ft (214.58 m) (lowest outlet), and 790.0 ft (240.79 m) (crest of spillway), of which 13,170 acre-ft (16.2 hm^3) is in conservation pool. Dead storage below elevation 704.0 ft (214.58 m), 30 acre-ft (37,000 m^3). Figures given herein represent usable contents. Lake is used primarily for flood control. There are no gates on spillway and all regulation is done by gates in conduits through abutment of dam. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03119500 Bolivar Reservoir			03120000 Leesville Lake		
Sept. 30	898.70	260	-	962.66	18,830	-
Oct. 31	897.50	146	-114	962.56	18,730	-100
Nov. 30	899.40	343	+197	960.10	16,410	-2,320
Dec. 31	899.60	368	+25	957.14	13,790	-2,620
CAL YR 1972	-	-	-932	-	-	-320
Jan. 31	899.70	381	+13	957.36	13,980	+190
Feb. 28	899.30	330	-51	957.70	14,270	+290
Mar. 31	901.75	720	+390	962.28	18,450	+4,180
Apr. 30	904.80	1,480	+760	963.56	19,730	+1,280
May 31	902.61	902	-578	963.21	19,380	-350
June 30	898.56	245	-657	962.77	18,940	-440
July 31	897.80	170	-75	962.71	18,880	-60
Aug. 31	897.70	162	-8	962.70	18,870	-10
Sept. 30	898.62	251	+89	962.68	18,850	-20
WTR YR 1973	-	-	-9	-	-	+20

Reservoirs in Muskingum River Basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03121000 Atwood Lake			03122000 Dover Lake		
Sept. 30	927.83	23,340	-	871.01	299	-
Oct. 31	927.71	23,160	-180	865.43	2.2	-296.8
Nov. 30	928.13	23,800	+640	868.93	107	+104.8
Dec. 31	928.07	23,700	-100	868.50	88	-19
CAL YR 1972	-	-	+7,060	-	-	-239
Jan. 31	928.20	23,910	+210	868.60	92	+4
Feb. 28	928.04	23,660	-250	867.78	57	-35
Mar. 31	928.15	23,830	+170	869.82	169	+112
Apr. 30	928.86	24,970	+1,140	872.92	674	+505
May 31	928.10	23,750	-1,220	872.12	490	-184
June 30	927.76	23,230	-520	866.50	16	-474
July 31	927.77	23,250	+20	865.80	4.0	-12
Aug. 31	927.73	23,190	-60	865.85	4.2	+0.2
Sept. 30	927.80	23,290	+100	866.21	9.6	+5.4
CAL YR 1973	-	-	-50	-	-	-289.4
	03123500 Beach City Lake			03125500 Piedmont Lake		
Sept. 30	950.18	2,810	-	912.85	33,170	-
Oct. 31	948.96	2,140	-670	912.68	32,790	-380
Nov. 30	949.84	2,610	+470	911.14	29,390	-3,400
Dec. 31	949.78	2,580	-30	910.25	27,540	-1,850
CAL YR 1972	-	-	-80	-	-	+1,430
Jan. 31	949.91	2,650	+70	909.10	25,230	-2,310
Feb. 28	949.53	2,450	-200	909.56	26,150	+920
Mar. 31	950.59	3,070	+620	912.32	31,990	+5,840
Apr. 30	950.43	2,970	-100	914.65	37,330	+5,340
May 31	950.10	2,760	-210	913.83	35,410	-1,920
June 30	948.90	2,150	-610	912.88	33,240	-2,170
July 31	948.99	2,160	+10	912.77	32,990	-250
Aug. 31	948.56	1,960	-200	912.62	32,660	-330
Sept. 30	948.83	2,080	+120	912.46	32,300	-360
WTR YR 1973	-	-	-730	-	-	-870
	03126500 Clendening Lake			03128000 Tappan Lake		
Sept. 30	897.65	25,880	-	899.04	34,450	-
Oct. 31	897.66	25,900	+20	897.08	30,030	-4,420
Nov. 30	897.68	25,930	+30	894.13	23,910	-6,120
Dec. 31	895.35	22,030	-3,900	894.99	25,630	+1,720
CAL YR 1972	-	-	+3,000	-	-	-1,050
Jan. 31	893.17	18,710	-3,320	894.58	24,810	-820
Feb. 28	893.48	19,140	+430	894.33	24,310	-500
Mar. 31	897.97	26,420	+7,280	898.46	33,110	+8,800
Apr. 30	899.10	28,560	+2,140	898.97	34,280	+1,170
May 31	898.61	27,630	-930	899.63	35,870	+1,590
June 30	897.79	26,120	-1,510	899.12	34,640	-1,230
July 31	897.67	25,910	-210	898.94	34,220	-420
Aug. 31	897.60	25,790	-120	898.85	34,010	-210
Sept. 30	897.36	25,380	-410	898.58	33,390	-620
WTR YR 1973	-	-	-500	-	-	-1,060

MUSKINGUM RIVER BASIN

Reservoirs in Muskingum River Basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03129500 Charles Mill Lake			03133000 Pleasant Hill Lake		
Sept. 30	999.48	10,760	-	1,021.23	14,620	-
Oct. 31	997.48	7,760	-3,000	1,010.08	6,600	-8,020
Nov. 30	998.38	9,060	+1,300	1,004.89	4,160	-2,440
Dec. 31	997.80	8,210	-850	1,005.27	4,310	+150
CAL YR 1972	-	-	+5,540	-	-	-5,020
Jan. 31	997.51	7,800	-410	1,006.00	4,610	+300
Feb. 28	996.27	6,130	-1,670	1,005.23	4,300	-310
Mar. 31	999.65	11,030	+4,900	1,020.29	13,770	+9,470
Apr. 30	998.65	9,460	-1,570	1,021.14	14,540	+770
May 31	999.17	10,260	+800	1,020.14	13,640	-900
June 30	998.11	8,660	-1,600	1,020.28	13,760	+120
July 31	997.49	7,780	-880	1,019.73	13,290	-470
Aug. 31	997.28	7,430	-350	1,019.46	13,070	-220
Sept. 30	997.15	7,300	-130	1,019.40	13,020	-50
WTR YR 1973	-	-	-3,460	-	-	-1,600
	03134500 Mohicanville Reservoir			03136300 North Branch Kokosing River Lake		
Sept. 30	944.80	5,320	-			
Oct. 31	934.26	79	-5,241			
Nov. 30	934.88	113	+34			
Dec. 31	936.31	212	+99			
CAL YR 1972	-	-	-119			
Jan. 31	935.22	135	-77			
Feb. 28	934.45	90	-45			
Mar. 31	935.91	182	+92			
Apr. 30	936.22	205	+23			
May 31	936.60	234	+29			
June 30	934.15	73	-161	1,121.84	1,080	-
July 31	933.60	49	-24	1,121.65	1,050	-30
Aug. 31	933.56	48	-1	1,121.35	1,000	-50
Sept. 30	933.59	49	+1	1,121.31	990	-10
WTR YR 1973	-	-	-5,271	-	-	-
	03138000 Mohawk Reservoir			03141000 Senecaville Lake		
Sept. 30	821.60	6,340	-	832.29	41,620	-
Oct. 31	808.34	785	-5,555	832.25	41,480	-140
Nov. 30	810.93	1,240	+455	830.68	36,130	-5,350
Dec. 31	814.77	2,390	+1,150	829.47	32,260	-3,870
CAL YR 1972	-	-	+840	-	-	+3,050
Jan. 31	809.91	1,040	-1,350	828.10	28,200	-4,060
Feb. 28	804.55	331	-709	828.57	29,560	+1,360
Mar. 31	809.62	991	+660	831.48	38,810	+9,250
Apr. 30	809.61	989	-2	834.55	50,150	+11,340
May 31	807.64	685	-304	832.48	42,300	-7,850
June 30	808.63	829	+144	832.11	40,970	-1,330
July 31	804.32	309	-520	832.15	40,120	-850
Aug. 31	802.65	173	-136	831.83	40,000	-120
Sept. 30	802.66	174	+1	831.68	39,490	-510
WTR YR 1973	-	-	-6,166	-	-	-2,130

Reservoirs in Muskingum River basin—Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03142290 Salt Fork Reservoir			03143000 Wills Creek Lake		
Sept. 30	800.45	43,340	-	742.74	5,150	-
Oct. 31	800.44	43,310	-30	741.71	4,180	-970
Nov. 30	801.54	46,780	+3,470	744.01	6,570	+2,390
Dec. 31	801.85	47,770	+990	744.48	7,200	+630
CAL YR 1972	-	-	+1,950	-	-	+1,460
Jan. 31	801.53	46,750	-1,020	744.85	7,690	+490
Feb. 28	801.32	46,070	-680	743.26	5,700	-1,990
Mar. 31	802.06	48,450	+2,380	744.61	7,370	+1,670
Apr. 30	802.92	51,380	+2,930	747.05	11,110	+3,740
May 31	802.05	48,420	-2,960	744.39	7,080	-4,030
June 30	800.70	44,120	-4,300	742.33	4,740	-2,340
July 31	800.57	43,720	-400	742.10	4,520	-220
Aug. 31	800.12	42,320	-1,400	741.47	3,970	-550
Sept. 30	800.01	41,980	-340	741.52	4,020	+50
WTR YR 1973	-	-	-1,360	-	-	-1,130

03147300 Dillon Lake

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	738.58	20,040	-
Oct. 31	737.20	17,780	-2,260
Nov. 30	734.07	13,220	-4,560
Dec. 31	734.27	13,490	+270
CAL YR 1972	-	-	-5,110
Jan. 31	734.08	13,230	-260
Feb. 28	734.00	13,120	-110
Mar. 31	734.48	13,780	+660
Apr. 30	738.06	19,160	+5,380
May 31	737.23	17,830	-1,330
June 30	737.18	17,750	-80
July 31	737.25	17,860	+110
Aug. 31	737.10	17,620	-240
Sept. 30	737.26	17,880	+260
WTR YR 1973	-	-	-2,160

03156000 Hunters Run at Lancaster, Ohio

LOCATION.--Lat 39°41' [illegible], long 82°37'18", in NE 1/4 sec.11, T.14 N., R.19 W., Fairfield County, on right bank at downstream side of bridge on U.S. Highway 22, 1.0 mi (1.6 km) southwest of Lancaster, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--10.0 mi^2 (25.9 km^2).

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 823.6 ft (251.03 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 9.54 ft^3/s (0.270 m^3/s), 12.96 in/yr (329.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 996 ft^3/s (28.2 m^3/s) June 17, gage height, 6.24 ft (1.902 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Oct. 9-11, Sept. 28.

Period of record: Maximum discharge, 1,820 ft^3/s (51.5 m^3/s) May 27, 1968, gage height, 8.00 ft (2.438 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s) on basis of slope-area measurement at gage height, 7.09 ft (2.161 m); minimum, 0.28 ft^3/s (0.008 m^3/s) Aug. 3, 4. 1969.

Flood of July 21 or 22, 1948 reached a stage of 15.4 ft (4.69 m), discharge, 11,200 ft^3/s (317 m^3/s), on basis of contracted-opening measurement of peak flow at Pennsylvania Railroad bridge, 0.8 mi (1.3 km) upstream.

REMARKS.--Records fair. Flood affected by temporary retention in four retarding basins upstream from station, combined capacity, 2,820 acre-ft (3.48 hm^3). Controlled drainage area is 8.49 mi^2 (22.0 km^2). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	34	12	18	15	9.1	13	17	8.0	13	7.0	2.3
2	2.7	41	9.8	13	29	9.1	11	17	7.0	13	5.5	2.3
3	2.1	25	8.6	26	23	10	9.7	24	6.5	13	5.0	2.2
4	2.3	15	7.5	43	16	9.7	63	17	10	13	4.5	2.2
5	2.7	11	10	22	13	10	29	14	15	12	4.0	2.3
6	2.5	9.5	23	16	13	9.1	18	12	9.1	12	4.0	3.2
7	2.3	102	16	14	12	9.7	15	11	8.0	12	3.6	2.4
8	2.1	80	28	11	13	8.5	35	33	6.5	11	3.6	2.0
9	1.7	25	72	9.0	10	8.0	39	26	5.5	11	3.2	2.8
10	1.7	20	31	7.0	8.2	8.0	34	16	5.0	11	3.6	3.2
11	1.7	19	20	5.2	7.0	9.7	21	13	5.0	10	3.2	2.4
12	14	15	14	4.5	7.0	12	29	11	5.5	9.7	3.2	2.4
13	6.0	50	25	4.5	7.2	11	28	9.1	5.5	9.7	3.6	2.0
14	4.3	93	22	4.8	11	13	19	9.1	4.5	13	8.5	2.4
15	3.7	25	20	6.0	21	15	15	11	4.0	15	5.5	2.0
16	3.5	19	15	6.0	15	40	13	10	83	11	3.6	1.9
17	3.1	15	13	7.0	12	46	13	12	192	9.7	3.2	1.9
18	3.1	13	8.6	7.5	9.0	23	13	9.7	83	9.1	2.8	3.5
19	3.1	15	13	10	8.0	18	13	11	29	9.1	2.8	2.5
20	2.9	24	54	8.0	8.0	15	13	17	23	11	6.5	2.1
21	3.1	16	30	7.0	9.0	13	11	10	24	52	4.0	2.1
22	3.3	14	24	24	12	11	10	9.1	21	27	3.2	4.5
23	3.5	12	19	22	10	9.7	72	8.5	19	18	2.8	3.5
24	3.3	11	16	13	9.7	9.1	33	9.7	17	15	2.8	1.8
25	3.3	11	14	11	9.7	9.7	22	10	15	81	2.8	2.3
26	3.1	12	17	11	10	15	19	16	15	21	2.6	2.0
27	3.1	11	16	21	9.7	11	82	12	14	13	2.6	1.8
28	3.9	13	13	17	9.1	9.1	47	13	16	9.7	2.6	1.7
29	4.7	13	13	13	------	11	24	10	15	7.5	2.5	1.9
30	4.1	13	13	11	------	19	19	12	13	6.5	2.4	2.3
31	5.4	------	21	11	------	14	------	10	------	6.0	2.4	------
TOTAL	110.2	776.5	618.5	403.5	336.6	425.5	782.7	420.2	689.1	485.0	117.6	71.9
MEAN	3.55	25.9	20.0	13.0	12.0	13.7	26.1	13.6	23.0	15.6	3.79	2.40
MAX	14	102	72	43	29	46	82	33	192	81	8.5	4.5
MIN	1.7	9.5	7.5	4.5	7.0	8.0	9.7	8.5	4.0	6.0	2.4	1.7
CFSM	.36	2.59	2.00	1.30	1.20	1.37	2.61	1.36	2.30	1.56	.38	.24
IN.	.41	2.89	2.30	1.50	1.25	1.58	2.91	1.56	2.56	1.80	.44	.27

CAL YR 1972 TOTAL 3,797.74 MEAN 10.4 MAX 278 MIN .93 CFSM 1.04 IN 14.13
WTR YR 1973 TOTAL 5,237.30 MEAN 14.3 MAX 192 MIN 1.7 CFSM 1.43 IN 19.48

PEAK DISCHARGE (BASE, 250 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-7	1700	4.20	295	6-17	1900	6.24	996
11-13	2300	4.31	322	7-25	0529	4.32	325
12-8	1830	4.20	295				

03156400 Hocking River at Lancaster, Ohio

LOCATION.--Lat 39°42'24", long 82°36'03", in NE 1/4 sec.12, T.14 N., R.19 W., Fairfield County, on right bank 25 ft (8 m) upstream from Columbus Street Bridge in Lancaster, and 0.5 mi (0.8 km) downstream from Hunters Run.

DRAINAGE AREA.--48.2 mi² (125 km²).

PERIOD OF RECORD.--June 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 797.9 ft (243.20 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 40.5 ft³/s (1.147 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,250 ft³/s (63.7 m³/s) June 17, gage height, 13.31 ft (4.057 m); minimum, 6.6 ft³/s (0.19 m³/s) Sept. 28.

Period of record: Maximum discharge, 3,520 ft³/s (99.7 m³/s) May 27, 1968, gage height, 15.75 ft (4.801 m); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 17, 1964; minimum gage height, 1.63 ft (0.497 m) Jan. 4, 5, 1959.

REMARKS.--Records fair. Some diurnal fluctuation caused by industrial plants upstream from station. Water supply for city of Lancaster is pumped from wells adjacent to the Hocking River 1.1 mi (1.8 km) upstream from station. The pumpage averaged 8.2 ft³/s (0.23 m³/s) in 1973 and is returned as sewage 0.8 mi (1.3 km) downstream from the station. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³), upstream from station. Controlled drainage area is 24.4 mi² (63.2 km²), data furnished by U.S. Department of Agriculture Soil Conservation Service. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	182	45	78	55	29	59	57	34	40	39	12
2	44	255	45	57	120	30	48	58	28	35	31	11
3	36	190	42	79	112	32	42	81	25	46	27	11
4	34	101	42	178	74	33	188	59	42	52	25	11
5	34	67	44	91	59	36	140	47	88	37	23	10
6	29	53	126	63	54	33	82	40	48	30	22	12
7	27	246	88	49	50	33	64	37	38	26	21	10
8	26	406	298	42	57	30	133	88	31	24	20	9.7
9	24	162	310	37	48	28	138	98	27	22	19	10
10	22	102	134	33	40	27	154	57	26	22	21	14
11	22	87	85	32	35	27	94	45	23	21	18	11
12	117	68	76	28	32	27	114	36	24	18	17	10
13	79	119	122	28	32	24	128	32	26	17	20	9.7
14	62	378	83	28	43	32	61	29	23	38	43	12
15	39	147	98	34	84	44	61	27	22	34	33	11
16	34	90	87	32	70	103	62	26	402	20	23	11
17	30	68	56	36	45	201	55	29	1,130	17	20	12
18	28	57	50	36	37	105	54	26	1,140	16	18	18
19	26	61	65	46	34	75	49	32	363	15	17	12
20	23	98	177	42	33	66	45	48	160	37	36	12
21	22	72	130	36	32	52	40	32	140	325	22	12
22	22	59	101	105	32	44	36	27	87	232	18	22
23	25	51	77	111	32	39	208	26	70	119	16	28
24	23	45	66	60	30	37	148	30	60	107	16	13
25	22	44	57	51	28	38	86	38	56	567	16	20
26	22	48	66	48	30	66	87	69	49	159	16	9.3
27	22	47	66	81	30	55	191	48	46	86	14	8.1
28	22	50	56	83	28	43	191	56	60	58	14	8.1
29	32	48	52	80	------	67	96	44	63	46	13	9.3
30	30	47	62	53	------	92	69	48	48	37	12	9.0
31	44	------	73	45	------	73	------	46	------	37	12	------
TOTAL	1,082	3,448	2,866	1,809	1,356	1,599	2,913	1,423	4,466	2,329	661	377.2
MEAN	34.9	115	92.5	58.4	48.4	51.6	97.1	45.9	149	75.1	21.3	12.6
MAX	117	406	310	178	120	201	208	98	1,140	567	43	28
MIN	22	44	42	28	28	24	36	26	22	15	12	8.1

CAL YR 1972 TOTAL 17,398.4 MEAN 47.5 MAX 789 MIN 2.4
WTR YR 1973 TOTAL 24,328.2 MEAN 66.7 MAX 1,140 MIN 8.1

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-17	1900	13.31	2,250	7-25	0815	9.70	1,300

03157000 Clear Creek near Rockbridge, Ohio

LOCATION.--Lat 39°35'18", long 82°34'43", in NE 1/4 sec.20, T.13 N., R.18 W., Hocking County, on left bank at upstream side of county road bridge, 400 ft (122 m) downstream from unnamed right bank tributary, 2.0 mi (3.2 km) upstream from mouth, and 3 mi (5 km) west of Rockbridge.

DRAINAGE AREA.--89.0 mi^2 (231 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 760.13 ft (231.688 m) above mean sea level, adjustment of 1912. Prior to May 2, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 84.6 ft^3/s (2.396 m^3/s), 12.91 in/yr (327.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,750 ft^3/s (49.6 m^3/s) Nov. 14, gage height, 7.56 ft (2.304 m); minimum, 14 ft^3/s (0.40 m^3/s) Oct. 10, 11.

Period of record: Maximum discharge, 16,000 ft^3/s (453 m^3/s) July 22, 1948, gage height, 17.68 ft (5.389 m) (from high-water mark in well), from rating curve extended above 4,300 ft^3/s (122 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.0 ft^3/s (0.085 m^3/s) Dec. 29, 1947, result of freezeup.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1940(M), 1943(M), 1945(M). WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	292	80	157	100	62	131	169	69	41	55	21
2	25	323	81	120	259	63	112	153	63	40	44	20
3	20	290	75	104	267	66	102	255	58	51	39	20
4	18	131	70	413	179	68	445	185	98	116	35	20
5	21	92	74	189	139	67	390	144	191	92	35	20
6	19	74	237	137	120	64	215	123	102	48	31	22
7	18	406	165	109	112	62	163	109	88	39	28	20
8	17	872	605	80	100	61	368	130	76	35	27	19
9	15	392	782	64	90	56	345	320	68	33	26	20
10	14	217	355	58	80	55	478	163	62	33	25	21
11	14	176	211	56	74	55	275	137	55	32	25	20
12	173	122	166	52	68	56	241	111	82	28	24	19
13	70	228	330	52	68	52	320	93	56	27	74	18
14	43	1.080	201	50	70	52	193	84	44	26	385	19
15	33	453	211	50	154	75	156	75	38	57	107	19
16	28	269	227	52	147	153	137	69	88	39	62	18
17	27	193	134	56	96	448	134	72	393	29	46	17
18	24	153	118	68	86	221	132	67	728	26	39	20
19	23	132	116	82	70	163	125	63	229	25	35	19
20	21	280	390	81	66	141	117	153	124	33	38	18
21	21	160	305	64	66	117	103	96	201	599	37	18
22	21	128	239	168	70	100	97	78	104	305	31	18
23	22	108	181	229	70	90	653	70	82	141	27	37
24	22	94	150	156	68	85	495	72	68	90	27	22
25	21	87	132	120	64	86	285	70	60	428	28	19
26	20	93	127	107	67	148	227	113	52	215	25	18
27	19	88	139	191	66	113	506	82	49	121	24	17
28	23	82	121	187	63	93	584	97	55	85	23	18
29	27	84	111	140	------	93	290	81	60	63	22	19
30	28	80	104	110	------	243	209	84	46	54	22	20
31	26	------	123	98	------	142	------	87	------	48	21	------
TOTAL	911	7.179	6.360	3.600	2.879	3.350	8.028	3.605	3.489	3.010	1.467	596
MEAN	29.4	239	205	116	103	108	268	116	116	97.1	47.3	19.9
MAX	173	1.080	782	413	267	448	653	320	728	599	385	37
MIN	14	74	70	50	63	52	97	63	38	25	21	17
CFSM	.33	2.69	2.30	1.30	1.16	1.21	3.01	1.30	1.30	1.09	.53	.22
IN.	.38	3.00	2.66	1.50	1.20	1.40	3.36	1.51	1.46	1.26	.61	.25

CAL YR 1972 TOTAL 37.725 MEAN 103 MAX 1.230 MIN 10 CFSM 1.16 IN 15.77
WTR YR 1973 TOTAL 44.474 MEAN 122 MAX 1.080 MIN 14 CFSM 1.37 IN 18.59

Peak Discharge (Base, 1,900 FT^3/S).-- No peaks above base.

03157500 Hocking River at Enterprise, Ohio

LOCATION.--Lat 39°33'54", long 82°28'29", in NW 1/4 sec.5, T.14 N., R.17 W., Hocking County, on right bank at upstream side of abandoned bridge at Enterprise, 4.0 mi (6.4 km) downstream from Buck Run, and 4.3 mi (6.9 km) upstream from Scott Creek.

DRAINAGE AREA.--459 mi^2 (1,189 km^2).

PERIOD OF RECORD.--October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 723.58 ft (220.547 m) above mean sea level. Prior to Oct. 24, 1933, nonrecording gage a same site and datum.

AVERAGE DISCHARGE.--43 years, 438 ft^3/s (12.40 m^3/s), 12.96 in/yr (329.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,590 ft^3/s (130 m^3/s) Dec. 9, gage height, 10.21 ft (3.112 m); minimum, 74 ft^3/s (2.10 m^3/s) Sept. 28.

Period of record: Maximum discharge, 26,000 ft^3/s (736 m^3/s) Mar. 10, 1964, gage height, 21.31 ft (6.495 m), from rating curve extended above 17,000 ft^3/s (481 m^3/s) on basis of contracted-opening and slope-area measurement of peak flow; minimum, 12 ft^3/s (0.34 m^3/s) Aug. 19, 1932.

Flood in March 1907, reached a stage of 22.0 ft (6.71 m), from floodmark, discharge, 36,000 ft^3/s (1,020 m^3/s), from reports of Corps of Engineers.

REMARKS.--Records good. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm^3), constructed between 1955 and 1961 upstream from Lancaster (see station 03156400). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1938. WSP 1907: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	649	963	525	752	656	332	804	1,080	411	225	265	98
2	365	1,600	531	612	1,260	336	720	924	350	208	243	93
3	271	1,800	500	568	1,560	353	652	1,120	311	229	200	89
4	225	1,130	468	1,620	1,080	385	1,350	1,040	339	400	178	86
5	220	687	501	1,350	820	393	2,070	812	1,300	487	166	86
6	218	525	895	848	716	419	1,420	692	876	274	181	171
7	192	898	1,180	636	704	392	980	620	576	216	156	137
8	174	3,240	1,680	500	704	382	1,440	612	445	194	144	100
9	155	2,600	3,900	420	672	339	1,740	1,120	340	181	142	97
10	136	1,430	3,210	380	532	325	2,160	732	300	173	137	110
11	125	1,040	1,560	350	450	322	1,660	648	270	176	137	93
12	553	799	1,040	340	400	336	1,310	532	260	159	126	86
13	608	760	1,420	329	422	318	1,680	464	260	149	184	81
14	348	3,770	1,280	329	460	304	1,340	422	240	140	652	94
15	266	3,420	1,090	353	840	540	1,010	385	219	234	640	86
16	224	1,910	1,420	350	844	676	848	360	468	171	298	82
17	210	1,040	916	375	480	1,980	796	367	2,020	146	211	79
18	189	777	756	400	460	1,550	796	346	3,310	140	178	97
19	180	705	756	445	440	1,120	724	329	1,270	154	161	89
20	159	1,400	1,630	487	430	976	664	744	672	149	184	84
21	155	1,180	1,740	375	410	812	588	580	688	1,010	181	79
22	154	853	1,390	848	400	676	536	419	584	1,260	149	78
23	156	709	1,060	1,250	390	588	1,940	371	411	856	131	154
24	160	616	868	896	378	536	2,940	502	346	494	124	133
25	155	561	764	676	357	521	2,160	544	304	1,890	122	95
26	145	590	736	608	360	992	1,380	708	271	1,840	120	91
27	138	586	796	892	360	1,030	2,050	576	255	1,050	116	78
28	151	559	696	1,180	339	700	3,540	580	271	491	110	76
29	173	566	616	1,140	------	660	2,600	513	308	357	104	76
30	188	529	604	776	------	988	1,430	468	258	247	102	106
31	172	------	672	652	------	880	------	532	------	249	100	------
TOTAL	7,224	37,243	35,200	20,737	16,924	20,151	43,328	19,142	17,933	14,007	5,927	2,894
MEAN	233	1,241	1,135	669	604	650	1,444	617	598	452	191	96.5
MAX	649	3,770	3,900	1,620	1,560	1,980	3,540	1,120	3,310	1,890	652	171
MIN	125	525	468	329	339	304	536	329	219	140	100	76
CFSM	.51	2.70	2.47	1.46	1.32	1.42	3.15	1.34	1.30	.98	.42	.21
IN.	.59	3.02	2.85	1.68	1.37	1.63	3.51	1.55	1.45	1.14	.48	.23

CAL YR 1972 TOTAL 204,549 MEAN 559 MAX 5,030 MIN 65 CFSM 1.22 IN 16.59
WTR YR 1973 TOTAL 240,710 MEAN 659 MAX 3,900 MIN 76 CFSM 1.44 IN 19.51

PEAK DISCHARGE (BASE, 3,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0900	10.10	4,490	4-28	0230	9.34	3,880
12-9	0230	10.21	4,590	6-18	1130	9.22	3,740
4-23	2030	9.26	3,810				

03158500 Burr Oak Reservoir at Burr Oak, Ohio

LOCATION.--Lat 39°32'30", long 82°03'27", near center of sec.6, T.11 N., R.14 W., Athens County, in control house at Tom Jenkins Dam on East Branch Sunday Creek, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Burr Oak, and 3.0 mi (4.8 km) northeast of Glouster.

DRAINAGE AREA.--33.1 mi^2 (85.7 km^2).

PERIOD OF RECORD.--February 1952 to current year. Published as Tom Jenkins Reservoir at Burr Oak October 1952 to September 1962.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 12,150 acre-ft (15.0 hm^3) Dec. 11, elevation, 725.03 ft (220.989 m); minimum, 9,100 acre-ft (11.2 hm^3) Sept. 28, elevation, 720.81 ft (219.703 m).

Period of record: Maximum contents, 17,820 acre-ft (22.0 hm^3) May 31, 1968, elevation, 731.53 ft (222.970 m); minimum, 3,450 acre-ft (4.25 hm^3) Nov. 20, 1953, elevation, 709.89 ft (216.374 m).

REMARKS.--Reservoir is formed by earth dam with emergency spillway; storage began Feb. 2, 1952. Capacity at spillway level, elevation, 740 ft (226 m), 26,900 acre-ft (33.2 hm^3), of which 9,220 acre-ft (11.4 hm^3) is in water supply pool. Dead storage, 35 acre-ft (43,200 m^3). Figures given herein represent useable contents. Reservoir is used for flood control, although water supply pool is operated for increased low flow for recreation and conservation of fish and wildlife. Outflow is controlled by operation of gates in conduit through dam.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	721.62	9,650	-
Oct. 31	721.62	9,650	0
Nov. 30	721.27	9,410	-240
Dec. 31	721.27	9,410	0
CAL YR 1972	-	-	-120
Jan. 31	721.13	9,310	-100
Feb. 28	721.15	9,330	+ 20
Mar. 31	721.14	9,320	- 10
Apr. 30	721.78	9,760	+440
May 31	721.12	9,310	-450
June 30	721.13	9,310	0
July 31	721.25	9,400	+ 90
Aug. 31	721.02	9,240	-160
Sept. 30	720.85	9,130	-110
WTR YR 1973	-	-	-520

03159000 Sunday Creek at Glouster, Ohio

LOCATION.--Lat 39°30'03", long 82°05'07", Athens County, on left bank 150 ft (46 m) downstream from West Branch Sunday Creek and 200 ft (61 m) upstream from bridge on State Highway 78 at Glouster.

DRAINAGE AREA.--104 mi² (269 km²).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 665.18 ft (202.747 m) above mean sea level. Prior to Dec. 4, 1951, nonrecording gage at site 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--22 years, 103 ft³/s (2.917 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,800 ft³/s (51.0 m³/s) Dec. 9, gage height, 13.81 ft (4.209 m); minimum, 3.0 ft³/s (0.085 m³/s) Sept. 27, 28.

Period of record: Maximum discharge, 7,020 ft³/s (199 m³/s) Mar. 5, 1963, gage height, 17.81 ft (5.428 m), from rating curve extended above 3,600 ft³/s (102 m³/s) on basis of velocity-area study and flow over road estimate of peak discharge; minimum, 0.4 ft³/s (0.011 m³/s) Oct. 26, 27, 1953.

Flood in March 1907 reached a stage of 22.0 ft (6.71 m), from information by Corps of Engineers.

REMARKS.--Records good below 200 ft³/s (5.66 m³/s), fair above. Flow partially regulated by Burr Oak Reservoir 5.2 mi (8.4 km) upstream (see station 03158500). Most of small diversion downstream from Burr Oak Reservoir, average 0.56 ft³/s (0.016 m³/s), is returned to stream upstream from station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	302	166	68	119	63	160	408	79	21	12	4.0
2	85	434	119	60	429	61	150	175	57	20	12	4.0
3	95	303	99	77	434	68	146	309	51	21	10	4.3
4	19	143	96	518	338	73	509	304	66	36	10	4.3
5	25	98	105	440	219	84	604	236	573	35	9.8	4.2
6	27	51	302	173	150	85	401	168	417	23	9.5	4.4
7	21	188	379	129	140	93	228	152	271	29	9.0	4.6
8	18	727	753	94	160	120	368	155	135	19	8.8	4.3
9	16	420	1,450	61	166	127	393	158	88	18	9.1	4.6
10	14	237	364	50	140	122	477	139	63	17	8.4	4.7
11	13	140	285	40	120	119	419	142	55	17	8.2	5.0
12	90	95	382	36	110	99	405	116	49	16	8.2	4.8
13	65	61	413	34	110	76	366	103	48	15	10	4.6
14	38	526	382	36	117	75	333	83	42	15	29	5.1
15	27	443	394	42	247	112	195	63	38	15	13	5.0
16	22	195	452	42	170	129	163	57	37	15	8.1	4.2
17	20	138	361	45	130	306	149	58	54	14	6.7	4.0
18	18	103	316	48	120	283	159	53	70	13	7.0	4.3
19	17	92	198	76	110	249	146	50	41	13	5.8	4.1
20	15	412	294	95	100	242	133	157	34	14	6.0	4.1
21	15	297	318	160	94	218	120	106	35	14	6.6	4.3
22	15	217	279	319	86	185	113	97	33	14	5.6	4.3
23	15	139	206	324	70	121	469	111	29	15	4.4	6.3
24	16	123	168	243	66	105	900	114	27	16	4.5	6.0
25	15	102	139	204	62	98	564	129	26	34	4.7	4.3
26	14	105	138	151	63	231	521	131	25	31	4.3	5.1
27	14	112	144	356	63	241	868	120	24	19	4.3	4.9
28	15	126	130	361	59	178	870	201	24	15	4.1	3.1
29	17	178	99	310	------	143	454	155	23	14	4.2	4.4
30	16	202	74	238	------	159	551	133	22	13	3.8	13
31	16	------	74	166	------	156	------	116	------	12	3.9	------
TOTAL	869	6,709	9,079	4,996	4,192	4,418	11,334	4,499	2,536	582	251.0	144.3
MEAN	28.0	224	293	161	150	143	378	145	84.5	18.9	8.10	4.81
MAX	95	727	1,450	518	434	306	900	408	573	36	29	13
MIN	13	51	74	34	59	61	113	50	22	12	3.8	3.1

CAL YR 1972 TOTAL 43,160.5 MEAN 118 MAX 1,450 MIN 5.6
WTR YR 1973 TOTAL 49,609.3 MEAN 136 MAX 1,450 MIN 3.1

03159500 Hocking River at Athens, Ohio

LOCATION.--Lat 39°19'44", long 82°05'16", in T.9 N., R.14 W., Athens County, on right bank 0.8 mi (1.3 km) east of business section of Athens, 1.4 mi (2.3 km) downstream from Coats Run, and 3.0 mi (4.8 km) downstream from Margaret Creek.

DRAINAGE AREA.--943 mi² (2,442 km²).

PERIOD OF RECORD.--May 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 611.26 ft (186.312 m) above mean sea level. Nonrecording gage prior to Aug. 17, 1931. Prior to June 19, 1970 at present site at datum 3.55 ft (1.082 m) higher. June 19, 1970, to Sept. 30, 1971 water-stage recorder at temporary site 5.3 mi (8.5 km) downstream at datum 11.26 ft (3.432 m) lower.

AVERAGE DISCHARGE.--58 years, 973 ft³/s (27.56 m³/s).

EXTREMES.--Current year: Maximum discharge, 9,460 ft³/s (268 m³/s) Dec. 10, gage height, 17.70 ft (5.395 m); minimum, 83 ft³/s (2.35 m³/s) Sept. 29.

Period of record: Maximum discharge, 32,900 ft³/s (932 m³/s) Mar. 11, 1964, gage height, 24.18 ft (7.370 m), datum then in use; minimum, 9 ft³/s (0.25 m³/s) Oct. 11, 1930.

Flood in March 1907 reached a stage of about 27 ft (8 m), datum then in use, from floodmarks, discharge, 50,000 ft³/s (1,420 m³/s), estimated by Corps of Engineers.

REMARKS.--Records good. Some regulation by Burr Oak Reservoir, capacity 26,900 acre-ft (33.2 hm³), on East Branch Sunday Creek 29 mi (47 km) upstream beginning 1952 (see station 03158500); by Hocking Lake, capacity 3,080 acre-ft (3.80 hm³), on Clear Fork 39.4 mi (63.4 km) upstream beginning in 1949; and by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft (10.7 hm³), constructed between 1955 and 1961 upstream from Lancaster (see station 03156400). Diurnal fluctuation at low flow caused by mill 3.2 mi (5.1 km) upstream from station. Channel work has destroyed stage-discharge relationship that existed prior to June 1970. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 523: 1918-19(M). WSP 743: 1922(M). WSP 873: 1920, 1922, 1924-28, 1937. WSP 1113: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,430	814	1,400	1,220	1,460	692	1,690	3,240	972	397	398	161
2	1,020	2,790	1,240	1,180	2,630	690	1,590	2,360	755	356	376	155
3	753	3,190	1,150	1,070	4,000	718	1,450	2,570	668	362	339	152
4	556	2,620	1,080	2,820	3,170	799	2,760	2,890	645	370	293	148
5	447	1,640	1,200	3,490	2,270	939	5,190	2,300	2,890	619	265	146
6	433	1,110	1,930	2,380	1,830	980	4,070	1,740	4,120	547	244	142
7	409	899	3,220	1,600	1,730	943	2,700	1,490	2,340	409	223	147
8	343	4,790	4,160	1,000	1,790	914	3,030	1,450	1,420	342	216	176
9	307	5,290	8,930	920	1,870	869	4,180	1,860	1,010	309	206	141
10	281	3,770	9,080	860	1,490	905	4,630	1,800	801	297	186	130
11	255	2,320	6,150	800	1,240	741	4,390	1,460	730	275	177	130
12	830	1,830	3,330	740	1,080	730	3,410	1,340	624	270	174	126
13	1,580	1,410	2,960	700	1,010	692	3,450	1,090	632	250	195	124
14	966	2,880	3,280	680	1,080	640	3,650	949	563	230	409	171
15	614	6,240	2,830	773	1,970	698	2,640	815	491	220	999	156
16	481	5,170	3,330	722	2,160	1,110	2,070	736	468	310	497	130
17	412	2,810	2,900	694	1,510	2,330	1,770	741	1,170	250	385	123
18	380	1,830	2,140	708	1,310	3,320	1,700	726	2,560	230	302	120
19	331	1,500	1,890	895	1,200	2,490	1,640	652	3,030	230	279	116
20	305	2,970	2,440	1,090	1,120	2,220	1,500	942	1,420	230	295	113
21	287	3,570	3,640	985	1,020	1,930	1,360	1,500	965	240	348	113
22	276	2,400	3,320	1,600	935	1,580	1,190	1,010	1,030	1,700	308	112
23	273	1,400	2,430	2,730	848	1,330	1,700	834	741	1,380	251	112
24	272	1,470	2,070	2,450	818	1,140	6,400	784	619	1,000	214	161
25	272	1,290	1,750	1,790	760	1,060	7,150	1,010	533	1,510	196	161
26	268	1,330	1,560	1,460	735	1,840	4,790	1,330	472	2,590	185	124
27	257	1,400	1,610	1,810	742	2,300	4,990	1,330	424	1,710	182	120
28	254	1,390	1,540	2,780	727	1,790	8,090	1,650	413	1,070	174	94
29	254	1,520	1,350	2,690	------	1,420	7,840	1,410	415	650	165	98
30	260	1,480	1,190	2,220	------	1,490	5,090	1,090	430	500	161	135
31	269	------	1,160	1,660	------	1,860	------	1,070	------	419	157	------
TOTAL	15,075	73,513	86,460	46,517	42,505	41,099	105,890	44,009	33,361	19,302	8,987	4,041
MEAN	486	2,450	2,789	1,501	1,518	1,326	3,530	1,420	1,112	623	290	135
MAX	1,580	6,240	9,080	3,490	4,000	3,320	8,090	3,240	4,120	2,590	999	176
MIN	254	814	1,080	680	727	640	1,190	652	413	220	157	94

CAL YR 1972 TOTAL 454,302 MEAN 1,241 MAX 9,080 MIN 100
WTR YR 1973 TOTAL 520,759 MEAN 1,427 MAX 9,080 MIN 94

PEAK DISCHARGE (BASE, 7,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	0830	17.70	9,460	4-29	0100	16.42	8,440
4-25	0300	15.42	7,640				

03159540 Shade River near Chester, Ohio

LOCATION.--Lat 39°03'49", long 81°52'55", in NE 1/4 sec.10, T.3 N., R.12 W., Meigs County, on right bank at downstream side of bridge on Oak Hill Road, 200 ft (61 m) upstream from Sugar Run, 2.8 mi (4.5 km) southeast of Chester, and 8.5 mi (13.7 km) northeast of Pomeroy.

DRAINAGE AREA.--156 mi^2 (404 km^2), includes that of Sugar Run.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956, 1962-64, June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 576.91 ft (175.842 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 162 ft^3/s (4.588 m^3/s), 14.10 in/yr (358.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,640 ft^3/s (103 m^3/s) Dec. 9, gage height, 19.39 ft (5.910 m); minimum, 5.4 ft^3/s (0.15 m^3/s) Sept. 12, 13.

Period of record: Maximum discharge, 8,170 ft^3/s (231 m^3/s) May 25, 1968, gage height, 27.39 ft (8.348 m); minimum, 0.30 ft^3/s (0.008 m^3/s) Sept. 7, 8, 9, 10, 1966.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	175	178	120	177	79	119	349	120	27	37	9.2
2	35	383	138	101	412	75	163	259	100	295	32	8.3
3	21	125	110	128	474	110	148	598	90	77	25	7.9
4	16	77	101	962	274	247	764	518	80	104	23	6.8
5	15	52	148	396	189	271	973	291	74	150	21	6.4
6	14	41	369	400	167	397	353	205	340	44	19	11
7	16	51	485	260	251	212	234	165	270	24	17	9.2
8	13	755	987	190	469	158	604	444	200	17	15	6.8
9	12	271	3,430	140	533	125	606	1,230	110	14	14	6.1
10	9.2	111	1,920	170	236	114	946	420	80	50	13	5.7
11	8.3	89	450	130	130	102	545	283	66	2,200	12	6.1
12	8.8	96	300	110	110	111	500	201	60	602	12	5.7
13	58	68	329	94	100	100	772	155	250	76	45	5.4
14	30	210	285	82	236	86	471	133	150	156	352	10
15	19	300	602	80	902	91	329	116	90	1,410	217	62
16	15	122	956	82	456	196	252	101	50	199	100	26
17	12	85	297	88	170	773	210	96	45	81	43	14
18	11	66	192	94	140	510	182	89	160	47	38	13
19	11	84	173	100	130	518	167	80	70	32	27	29
20	11	487	408	120	127	352	178	177	43	34	35	18
21	10	261	435	150	122	240	141	197	44	46	276	13
22	11	135	555	264	105	170	120	101	55	97	111	11
23	9.7	102	387	501	107	136	653	82	56	51	47	12
24	9.2	80	247	276	97	117	2,340	84	36	98	31	88
25	9.2	75	189	128	85	120	575	108	29	586	24	36
26	11	261	175	120	84	256	392	614	25	208	21	21
27	11	219	242	304	91	249	1,670	347	22	200	19	16
28	10	225	182	408	89	150	3,110	400	23	100	15	13
29	10	343	141	345	------	127	936	300	45	60	13	13
30	10	217	125	212	------	120	396	200	35	45	12	76
31	11	------	120	148	------	114	------	150	------	32	10	------
TOTAL	543.4	5,566	14,656	6,703	6,463	6,426	10,849	8,493	2,818	7,162	1,676	565.6
MEAN	17.5	186	473	216	231	207	628	274	93.9	231	54.1	18.9
MAX	96	755	3,430	962	902	773	3,110	1,230	340	2,200	352	88
MIN	8.3	41	101	80	84	75	119	80	22	14	10	5.4
CFSM	.11	1.19	3.03	1.38	1.48	1.33	4.03	1.76	.60	1.48	.35	.12
IN.	.13	1.33	3.49	1.60	1.54	1.53	4.49	2.03	.67	1.71	.40	.13

CAL YR 1972 TOTAL 76,926.6 MEAN 210 MAX 3,430 MIN 1.4 CFSM 1.35 IN 18.34
WTR YR 1973 TOTAL 79,921.0 MEAN 219 MAX 3,430 MIN 5.4 CFSM 1.40 IN 19.06

PEAK DISCHARGE (BASE, 2,400 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-9	1900	19.39	3,640	4-28	1100	18.39	3,310
4-24	1330	16.26	2,670	7-11	1900	17.32	2,990

03201600 Sandy Run above Big Four Hollow Creek near Lake Hope, Ohio

LOCATION.--Lat 39°21'45", long 82°18'47", in NW 1/4 SW 1/4 sec.11, T.11 N., R.16 W., Vinton County, on right bank 250 ft (76 m) upstream from Big Four Hollow Creek, 150 ft (46 m) downstream from Morgan Hollow Creek, 2.5 mi (4.0 km) southwest of Carbondale, and 3.7 mi (6.0 km) northeast of Lake Hope.

DRAINAGE AREA.--0.98 mi² (2.54 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder with concrete weir and 6-inch Parshall flume. Altitude of gage is 770.0 ft (234.70 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, about 74 ft³/s (2.10 m³/s) Dec. 8; minimum, 0.03 ft³/s (0.001 m³/s) for all or part of each day July 11, 12, Aug. 29 to Sept. 4, Sept. 7, 8, 12, 13, 21, 26.

Period of record: Maximum discharge, 280 ft³/s (7.93 m³/s) Aug. 17, 1972, gage-height, 4.16 ft (1.268 m); minimum, 0.02 ft³/s (0.001 m³/s) Sept. 24, 25, 1971, gage height, 0.05 ft (0.015 m).

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	6.2	1.3	.50	1.7	.48	2.1	2.4	.64	.09	.16	.04
2	.33	3.0	1.1	.42	7.1	.44	1.7	2.1	.50	.08	.07	.04
3	.25	2.2	.98	3.6	4.0	.74	1.5	5.9	.34	.14	.06	.05
4	.28	1.3	1.3	3.8	2.5	.60	13	3.7	1.9	.11	.05	.05
5	.25	.78	1.3	2.2	1.8	.72	4.5	2.3	2.4	.08	.06	.04
6	.27	.64	8.1	1.5	1.7	.62	2.9	1.8	1.8	.06	.06	.04
7	.25	6.9	2.7	1.0	1.5	.78	3.1	1.4	1.1	.05	.05	.03
8	.25	4.5	25	.84	2.0	.58	8.0	1.6	.68	.05	.06	.04
9	.22	2.1	11	.66	1.6	.62	6.6	1.0	.46	.06	.06	.05
10	.21	1.7	5.1	.52	1.3	.62	5.4	.88	.36	.05	.06	.05
11	.22	1.6	3.6	.31	.98	.64	4.2	1.1	.27	.05	.05	.05
12	3.6	1.2	2.9	.24	.90	.50	3.6	.78	.21	.03	.05	.04
13	.76	1.1	2.5	.22	.86	.48	3.8	.60	.17	.05	.07	.03
14	.42	4.2	2.2	.30	2.2	.62	3.0	.46	.12	.08	.36	.11
15	.28	2.0	3.9	.40	3.5	.96	2.1	.36	.13	.07	.11	.05
16	.24	1.6	3.2	.44	2.0	2.1	1.7	.35	.20	.05	.07	.04
17	.20	1.2	1.6	.56	1.4	3.0	1.4	.36	.13	.05	.07	.05
18	.17	.91	1.6	.66	1.0	2.7	1.3	.30	.11	.05	.06	.07
19	.16	2.1	1.6	1.8	.90	2.5	1.2	.40	.09	.04	.05	.05
20	.14	7.4	4.2	1.1	.80	2.4	.86	1.2	.09	1.3	.13	.05
21	.16	2.6	2.7	1.0	.72	1.6	.74	.44	.15	1.4	.07	.04
22	.16	1.9	2.1	5.1	.66	1.2	.72	.36	.09	.25	.06	.05
23	.20	1.3	1.7	2.7	.62	1.0	7.4	.34	.09	.76	.06	.15
24	.14	1.1	1.4	1.8	.58	1.0	4.0	.63	.08	.47	.06	.05
25	.14	1.2	1.2	1.4	.58	1.4	3.5	1.5	.08	.39	.05	.05
26	.14	1.4	1.3	1.3	.60	2.4	2.7	2.8	.08	.25	.05	.04
27	.14	1.2	1.1	4.1	.54	1.5	19	1.5	.09	.19	.05	.05
28	.22	1.4	.88	2.8	.56	1.3	8.0	4.7	.10	.12	.05	.05
29	.17	1.5	.76	2.5	------	1.4	3.5	1.4	.07	.09	.05	.43
30	.16	1.7	.81	1.7	------	1.4	2.8	1.2	.07	.08	.05	.12
31	.20	------	.78	1.4	------	1.7	------	.96	------	.09	.04	------
TOTAL	10.93	67.93	99.91	46.87	44.50	38.24	124.32	44.82	12.66	6.53	2.32	2.00
MEAN	.35	2.26	3.22	1.51	1.59	1.23	4.14	1.45	.42	.21	.075	.067
MAX	3.6	7.4	25	5.1	7.1	3.0	19	5.9	2.4	1.4	.36	.43
MIN	.14	.64	.76	.22	.54	.44	.72	.30	.07	.03	.04	.03
CFSM	.36	2.31	3.29	1.54	1.62	1.26	4.22	1.48	.43	.21	.08	.07
IN.	.41	2.54	3.79	1.78	1.69	1.45	4.72	1.70	.48	.25	.09	.08

CAL YR 1972 TOTAL 473.34 MEAN 1.29 MAX 25 MIN .03 CFSM 1.32 IN 17.97
WTR YR 1973 TOTAL 501.23 MEAN 1.37 MAX 25 MIN .03 CFSM 1.40 IN 19.03

Peak Discharge (Base, 50 FT³/S).--Dec. 8 (unknown) about 74 FT³/S (unknown).

Note: No gage height record Dec. 6-15.

03201700 Big Four Hollow Creek near Lake Hope, Ohio

LOCATION.--Lat 39°21'48", long 82°18'51", in SE 1/4 NE 1/4 sec.11, T.11 N., R.16 W., Vinton County, on right bank 200 ft (61 m) upstream from State Route 278 crossing, 300 ft (91 m) upstream from Sandy Run, 2.5 mi (4.0 km) southwest of Carbondale, and 3.7 mi (6.0 km) northeast of Lake Hope.

DRAINAGE AREA.--1.01 mi² (2.62 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder with concrete weir and 6-inch Parshall flume. Altitude of gage is 770.0 ft (234.70 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 73 ft³/s (2.07 m³/s) Dec. 8, gage height, 2.53 ft (0.771 m); minimum, no flow all or part of each day Aug. 29 to Sept. 8, Sept. 10-13, 21, 22.

Period of record: Maximum discharge, 200 ft³/s (5.66 m³/s) Aug. 17, 1972, gage height, 3.76 ft (1.146 m); minimum daily discharge, 0.01 ft³/s (0.000 m³/s) July 6, 7, 8, Sept. 25, 1971.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	8.9	1.3	1.1	1.9	.48	1.8	2.1	.83	.05	.14	.02
2	.54	4.9	1.1	.86	9.3	.46	1.5	1.7	.66	.05	.06	.01
3	.39	2.5	.96	5.3	4.0	.62	1.3	8.5	.54	.09	.05	.01
4	.36	1.4	1.1	5.6	2.4	.60	13	2.7	3.4	.07	.05	.01
5	.36	.98	1.2	2.4	1.7	.70	4.2	2.0	3.4	.05	.05	0
6	.28	.74	9.5	1.5	1.7	.64	2.7	1.5	2.1	.04	.04	0
7	.25	7.9	2.9	1.3	1.5	.68	3.2	1.2	1.4	.03	.04	.01
8	.21	5.5	29	1.0	2.1	.62	7.9	1.3	.86	.03	.04	0
9	.17	2.2	11	.80	1.6	.58	6.3	1.0	.62	.03	.03	.02
10	.12	1.7	4.7	.66	1.3	.56	5.2	.83	.50	.03	.04	.01
11	.11	1.8	3.6	.52	1.1	.56	3.6	1.2	.39	.03	.05	0
12	3.4	1.3	2.9	.47	.86	.52	3.6	.83	.34	.03	.05	0
13	1.0	1.2	2.5	.42	.83	.46	3.8	.74	.31	.02	.11	0
14	.62	5.4	2.1	.46	2.4	.48	2.9	.66	.22	.03	.50	.08
15	.42	2.2	3.0	.54	3.6	.52	2.2	.56	.18	.06	.17	.04
16	.34	1.6	2.7	.68	1.9	2.1	1.7	.44	.22	.05	.08	.03
17	.30	1.2	1.7	.76	1.3	2.8	1.4	.48	.21	.04	.06	.02
18	.24	.96	1.5	.83	1.1	2.5	1.3	.39	.20	.03	.05	.02
19	.21	2.4	1.7	1.9	.94	2.5	1.2	.48	.14	.02	.04	.01
20	.16	9.5	3.7	1.3	.84	2.2	1.1	1.4	.12	2.2	.10	.01
21	.16	2.6	2.5	1.0	.76	1.5	.93	.68	.24	1.4	.05	.01
22	.14	1.8	2.2	4.8	.68	1.2	.83	.54	.12	.34	.04	.01
23	.18	1.3	1.8	3.2	.64	.98	7.5	.48	.10	.57	.03	.08
24	.14	1.0	1.6	1.9	.60	.86	3.8	.79	.10	.49	.03	.02
25	.14	1.1	1.4	1.5	.58	1.2	3.4	1.4	.08	.42	.02	.02
26	.13	1.3	1.4	1.3	.60	2.9	2.5	4.2	.07	.25	.02	.02
27	.13	1.2	1.3	4.7	.54	1.6	19	1.7	.07	.17	.02	.03
28	.24	1.5	1.2	3.1	.56	1.3	4.8	5.0	.09	.11	.02	.03
29	.21	1.6	1.1	2.6	------	1.3	2.7	1.6	.08	.09	.02	.36
30	.18	1.5	1.1	1.9	------	1.7	2.4	1.3	.06	.06	.02	.13
31	.21	------	1.1	1.5	------	1.5	------	1.3	------	.05	.02	------
TOTAL	12.27	79.18	104.86	55.90	47.33	36.62	117.76	49.00	17.65	6.93	2.04	1.01
MEAN	.40	2.64	3.38	1.80	1.69	1.18	3.93	1.58	.59	.22	.066	.034
MAX	3.4	9.5	29	5.6	9.3	2.9	19	8.5	3.4	2.2	.50	.36
MIN	.11	.74	.96	.42	.54	.46	.83	.39	.06	.02	.02	0
CFSM	.40	2.61	3.35	1.78	1.67	1.17	3.89	1.56	.58	.22	.07	.03
IN.	.45	2.92	3.86	2.06	1.74	1.35	4.34	1.80	.65	.26	.08	.04

CAL YR 1972 TOTAL 561.18 MEAN 1.53 MAX 29 MIN .03 CFSM 1.51 IN 20.67
WTR YR 1973 TOTAL 530.55 MEAN 1.45 MAX 29 MIN 0 CFSM 1.44 IN 19.54

Peak Discharge (Base, 50 FT³/S).--Dec. 8 (1730) 73 FT³/S (2.53 ft).

03201800 Sandy Run near Lake Hope, Ohio

LOCATION.--Lat 39°20'01", long 82°19'56", in T.11 N., R.16 W., Vinton County, on right bank at upstream side of bridge on King Hollow Trail, 1,200 ft (366 m) downstream from Harbargar Hollow, 2.6 mi (4.2 km) upstream from spillway of Lake Hope, and 5.0 mi (8.0 km) northeast of Zaleski.

DRAINAGE AREA.--4.99 mi² (12.9 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 715.51 ft (218.087 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 5.69 ft³/s (0.161 m³/s), 15.48 in/yr (393.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 422 ft³/s (12.0 m³/s) Dec. 8, gage height, 5.64 ft (1.719 m); minimum, no flow all or part of each day July 12-14, 17-20, Sept. 1-23, 26-29.

Period of record: Maximum discharge, 3,770 ft³/s (107 m³/s) Aug. 3, 1958, gage height, 8.41 ft (2.563 m); no flow at times most years.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	24	6.3	3.1	8.7	2.7	11	13	4.8	.23	1.1	.01
2	1.8	16	5.4	2.7	40	2.5	8.7	11	3.6	.29	.44	.01
3	1.1	10	4.9	20	22	3.1	7.8	41	2.9	.74	.29	0
4	.99	6.1	5.6	30	15	3.6	65	18	11	.53	.23	0
5	1.1	4.5	7.1	12	11	3.9	24	11	13	.44	.18	0
6	.88	3.6	34	8.1	9.1	3.9	14	8.4	8.1	.18	.18	0
7	.75	14	15	6.0	8.4	3.9	16	7.0	6.0	.15	.15	0
8	.64	30	94	4.5	11	3.6	44	7.8	4.1	.12	.15	0
9	.53	9.8	55	3.1	11	3.4	32	6.5	2.9	.10	.15	0
10	.42	7.1	23	2.6	10	3.1	30	5.5	2.3	.10	.15	0
11	.53	7.3	13	2.4	5.5	3.1	20	6.5	1.7	.06	.15	0
12	9.1	5.6	13	2.2	5.1	3.1	19	4.8	1.4	.01	.10	0
13	4.5	5.2	17	2.0	4.6	2.7	21	4.1	1.1	0	.15	0
14	2.3	24	11	2.4	12	2.7	17	3.6	.86	0	1.5	0
15	1.6	9.5	17	2.9	22	2.9	12	3.1	.74	.23	.86	0
16	1.2	6.8	14	3.1	12	9.4	9.7	2.7	.98	.18	.23	0
17	1.1	5.4	8.4	4.1	7.0	18	8.1	2.9	1.1	.04	.15	0
18	.99	4.5	7.0	4.3	5.2	16	7.3	2.5	.98	0	.15	0
19	.99	8.0	7.8	11	4.5	15	6.7	2.7	.63	0	.10	0
20	1.2	39	22	7.0	4.0	14	6.3	7.8	.44	2.1	.63	0
21	2.1	12	13	6.3	3.7	10	5.5	3.9	1.1	6.0	.29	0
22	1.9	8.0	12	27	3.3	6.3	5.3	2.9	.53	1.7	.18	0
23	2.3	6.1	8.4	15	3.1	5.3	35	2.7	.44	8.7	.12	.15
24	2.3	5.2	6.7	9.7	3.0	4.8	25	4.3	.29	6.7	.12	.10
25	1.9	5.2	5.8	8.1	2.9	6.5	22	4.1	.29	4.6	.18	.02
26	1.9	6.1	6.0	6.3	3.1	18	17	18	.23	1.9	.12	0
27	1.8	5.9	5.5	22	2.9	9.4	89	7.8	.53	1.1	.10	0
28	2.3	6.8	4.6	15	2.7	7.3	50	24	.63	.63	.06	0
29	2.5	8.0	3.9	14	------	7.0	22	8.4	.63	.53	.06	.06
30	2.5	7.5	3.9	16	------	9.7	17	7.0	.29	.36	.04	.53
31	2.3	------	4.1	8.1	------	8.4	------	6.5	------	.44	.02	------
TOTAL	58.52	311.2	454.4	281.0	252.8	213.3	667.4	259.5	73.59	38.16	8.33	.88
MEAN	1.89	10.4	14.7	9.06	9.03	6.88	22.2	8.37	2.45	1.23	.27	.029
MAX	9.1	39	94	30	40	18	89	41	13	8.7	1.5	.53
MIN	.42	3.6	3.9	2.0	2.7	2.5	5.3	2.5	.23	0	.02	0
CFSM	.38	2.08	2.95	1.82	1.81	1.38	4.45	1.68	.49	.25	.05	.006
IN.	.44	2.32	3.39	2.09	1.88	1.59	4.98	1.93	.55	.28	.06	.006

CAL YR 1972 TOTAL 2,800.65 MEAN 7.65 MAX 94 MIN .02 CFSM 1.53 IN 20.88
WTR YR 1973 TOTAL 2,619.08 MEAN 7.18 MAX 94 MIN 0 CFSM 1.44 IN 19.53

PEAK DISCHARGE (BASE, 220 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1915	5.64	422	4-4	0830	4.30	230

03202000 Raccoon Creek at Adamsville, Ohio

LOCATION.--Lat 38°52'25", long 82°21'22", in SE 1/4 sec.26, T.6 N., R.16 W., Gallia County, on left bank at downstream side of U.S. Highway 35 bridge at Adamsville, 1.3 mi (2.1 km) upstream from Ryan Run, and 1.4 mi (2.3 km) downstream from Indian Creek.

DRAINAGE AREA.--585 mi² (1,515 km²).

PERIOD OF RECORD.--June 1915 to December 1935, October 1938 to current year. Monthly discharge only for December 1935, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 570.04 ft (173.748 m) above mean sea level. Prior to June 13, 1940, nonrecording gage, June 13, 1940 to Oct. 27, 1970 water-stage recorder 480 ft (146 m) upstream at same datum.

AVERAGE DISCHARGE.--55 years, 642 ft³/s (18.18 m³/s), 14.90 in/yr (378.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,900 ft³/s (139 m³/s) Dec. 12, gage height 17.00 ft (5.182 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 4.

Period of record: Maximum discharge, 20,000 ft³/s (566 m³/s) May 28, 1968, gage height 28.69 ft (8.745 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-conveyance estimate of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) Oct. 17-19, 1964.

Flood in January 1937 reached a stage of 25.2 ft (7.68 m), from floodmark, discharge, 16,000 ft³/s (453 m³/s).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1916-18, 1920, 1922, 1924, 1926-27, 1931, 1933, 1935(M). WSP 1908: Drainage area. WSP 2108: 1968-70(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	654	762	568	834	438	843	4,360	726	97	121	37
2	231	746	656	532	1,020	414	899	3,360	593	94	117	40
3	251	746	562	524	1,590	424	878	2,380	477	135	105	33
4	201	843	500	1,190	1,840	526	1,220	1,790	382	139	96	26
5	157	684	526	1,580	1,690	614	2,030	1,860	516	151	88	29
6	135	454	713	1,660	1,270	676	2,330	1,570	906	127	82	33
7	121	376	1,050	1,290	1,070	629	2,390	1,150	1,270	104	77	40
8	114	955	2,190	876	1,230	587	2,220	1,120	1,180	89	73	48
9	107	1,180	4,450	644	1,390	556	2,160	1,650	793	77	68	45
10	94	1,200	4,490	485	1,230	532	2,350	1,250	510	72	64	35
11	86	1,000	4,680	483	950	487	2,470	994	371	700	61	33
12	82	650	4,890	467	717	491	2,440	811	327	606	57	32
13	79	520	4,500	424	622	464	2,290	693	1,370	190	61	35
14	73	589	3,770	376	807	428	2,000	599	869	134	120	42
15	146	802	2,410	338	1,500	409	1,680	522	385	128	97	38
16	170	1,000	2,060	330	1,620	458	1,350	456	311	144	99	33
17	125	911	1,720	340	1,410	1,000	1,090	411	272	117	100	85
18	103	606	1,360	356	1,020	1,310	938	372	475	101	116	76
19	94	554	1,050	424	850	1,490	876	349	489	90	107	70
20	86	874	1,130	560	773	1,410	943	384	288	86	89	56
21	77	1,060	1,410	629	698	1,230	895	625	237	121	79	45
22	73	1,280	1,640	782	627	1,010	786	577	204	295	72	35
23	70	1,120	1,540	1,100	579	825	1,210	481	171	294	70	30
24	66	757	1,270	1,320	536	691	3,020	401	154	245	67	28
25	65	571	1,030	1,200	498	614	3,490	387	135	225	64	42
26	65	599	895	918	469	867	3,400	684	131	234	60	42
27	65	548	846	830	469	1,120	3,480	1,220	113	280	57	45
28	65	620	802	979	460	1,130	4,210	1,340	104	228	53	40
29	65	773	730	1,250	------	984	4,210	1,380	104	181	48	33
30	68	795	652	1,230	------	846	4,290	1,230	101	142	45	48
31	72	------	602	1,000	------	802	------	950	------	124	43	------
TOTAL	3,390	23,467	54,886	24,685	27,769	23,462	62,388	35,356	13,964	5,754	2,456	1,254
MEAN	109	782	1,771	796	992	757	2,080	1,141	465	186	79.2	41.8
MAX	251	1,280	4,890	1,660	1,840	1,490	4,290	4,360	1,370	700	121	85
MIN	65	376	500	330	460	409	786	349	101	72	43	26
CFSM	.19	1.34	3.03	1.36	1.70	1.29	3.56	1.95	.79	.32	.14	.07
IN.	.22	1.49	3.49	1.57	1.77	1.49	3.97	2.25	.89	.37	.16	.08

CAL YR 1972 TOTAL 285,977 MEAN 781 MAX 4,890 MIN 29 CFSM 1.34 IN 18.19
WTR YR 1973 TOTAL 278,831 MEAN 764 MAX 4,890 MIN 26 CFSM 1.31 IN 17.73

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-12	1300	17.00	4,900	5-1	0100	16.57	4,600

03219500 Scioto River near Prospect, Ohio

LOCATION.--Lat 40°25'10", long 83°11'50", Delaware County, on downstream side of pier of Hoskins Bridge, 1.5 mi (2.4 km) upstream from Ottawa Creek, 2.0 mi (3.2 km) south of Prospect, and 2.5 mi (4.0 km) downstream from Patton Run.

DRAINAGE AREA.--567 mi² (1,469 km²).

PERIOD OF RECORD.--July 1925 to October 1932, October 1939 to current year. Published as "at Prospect" 1925-32. Gage-height records collected in this vicinity since 1915 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 886.9 ft (270.33 m) above mean sea level, adjustment of 1912 (levels by Corps of Engineers). July 24, 1925, to Oct. 31, 1932, nonrecording gage at site 2.5 mi (4.0 km) upstream at datum 4.8 ft (1.46 m) higher. Oct. 16 to Dec. 5, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--41 years, 815 ft³/s (23.08 m³/s), 10.85 in/yr (275.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,180 ft³/s (147 m³/s) Nov. 16, gage height, 10.63 ft (3.240 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 30.

Period of record: Maximum discharge, 10,100 ft³/s (286 m³/s) Mar. 22, 1927, gage height, 15.0 ft (4.57 m), from graph based on gage readings at site and datum then in use, and Jan. 21, 1959, gage height, 15.30 ft (4.663 m); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 13, 1953.

Flood of March 25, 1913 reached a stage of 21.1 ft (6.43 m), discharge, 27,000 ft³/s (765 m³/s), computed by Franklin County Conservancy District, at site and datum used 1925-32.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,760	291	509	1,560	572	160	1,390	908	317	520	258	120
2	1,600	1,890	467	1,490	1,350	190	1,150	688	253	370	200	89
3	905	2,380	443	932	2,060	380	1,040	560	200	300	161	75
4	528	2,830	449	1,170	2,130	756	848	479	183	400	133	68
5	420	3,100	518	1,460	1,530	964	1,340	404	177	1,300	116	58
6	396	2,090	1,070	1,190	888	1,050	1,700	338	524	1,100	102	53
7	357	1,230	1,980	650	668	948	1,450	290	984	760	91	48
8	312	2,460	3,100	370	560	668	892	263	1,240	480	81	46
9	255	2,880	3,080	310	460	530	720	284	1,320	300	75	42
10	206	3,640	2,030	270	350	836	1,280	485	708	200	73	37
11	174	3,260	1,300	240	290	1,970	1,550	960	368	210	71	37
12	230	2,020	880	210	260	3,100	1,440	1,600	272	170	299	36
13	330	1,220	1,350	190	230	3,420	1,520	1,620	248	140	401	35
14	366	2,640	1,840	180	240	2,750	1,660	840	386	130	684	59
15	318	3,660	2,000	170	280	3,220	1,610	488	410	120	1,610	73
16	264	4,940	1,380	180	310	3,560	976	401	263	110	2,070	51
17	243	4,930	720	175	300	4,350	664	350	195	96	2,400	51
18	222	3,550	592	177	270	4,340	620	302	175	82	1,630	48
19	214	1,800	542	208	240	4,640	616	269	160	67	608	38
20	190	1,490	628	225	220	3,850	592	434	760	53	395	35
21	166	1,570	1,050	193	210	2,650	551	672	1,700	84	724	35
22	156	1,400	1,520	278	190	1,820	485	500	1,200	323	616	34
23	170	992	1,670	584	180	1,280	473	374	700	804	350	42
24	196	720	1,570	744	180	988	732	326	430	764	230	38
25	198	588	1,340	515	170	916	696	314	260	864	169	35
26	204	542	1,160	395	165	1,080	491	290	200	1,760	142	37
27	192	592	1,010	443	158	1,390	536	656	170	2,480	125	36
28	182	696	868	916	149	1,320	1,380	548	200	2,150	111	35
29	176	708	692	1,360	------	936	1,700	380	350	1,490	96	31
30	176	592	628	1,280	------	1,170	1,460	353	640	724	92	28
31	178	------	988	796	------	1,500	------	356	------	365	183	------
TOTAL	11,284	60,693	37,374	18,861	14,610	56,732	31,562	16,732	14,993	18,720	14,295	1,450
MEAN	364	2,023	1,206	608	522	1,830	1,052	540	500	604	461	48.3
MAX	1,760	4,940	3,100	1,560	2,130	4,640	1,700	1,620	1,700	2,480	2,400	120
MIN	156	291	443	170	149	160	473	263	160	53	71	28
CFSM	.64	3.57	2.13	1.07	.92	3.23	1.86	.95	.88	1.07	.81	.09
IN.	.74	3.98	2.45	1.24	.96	3.72	2.07	1.10	.98	1.23	.94	.10

CAL YR 1972 TOTAL 310,016 MEAN 847 MAX 7,220 MIN 18 CFSM 1.49 IN 20.34
WTR YR 1973 TOTAL 297,307 MEAN 815 MAX 4,940 MIN 28 CFSM 1.44 IN 19.51

PEAK DISCHARGE (BASE, 3,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-10	1700	8.85	3,760	3-19	0600	10.07	4,740
11-16	2300	10.63	5,180				

03220000 Mill Creek near Bellepoint, Ohio

LOCATION.--Lat 40°14'54", long 83°10'26", Delaware County, on left bank at upstream side of county bridge, 1.2 mi (1.9 km) west of Bellepoint, 1.5 mi (2.4 km) upstream from mouth, and 2.3 mi (3.7 km) downstream from Blues Creek.

DRAINAGE AREA.--178 mi² (461 km²).

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 865.14 ft (263.695 m) above mean sea level, adjustment of 1912 (levels by students of Ohio State University, City of Columbus bench mark). Prior to Jan. 1 , 1948, nonrecording gage, at same site and datum.

AVERAGE DISCHARGE.--31 years, 149 ft³/s (4.220 m³/s), 11.37 in/yr (288.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,690 ft³/s (76.2 m³/s) Nov. 14, gage height, 6.51 ft (1.984 m); minimum, 6.6 ft³/s (0.19 m³/s) Sept. 17.

Period of record: Maximum discharge, 20,300 ft³/s (575 m³/s) Jan. 21, 1959, gage height, 13.85 ft (4.221 m), from rating curve extended above 14,000 ft³/s (396 m³/s); no flow Sept. 25, 26, 1944, Sept. 19, 1948.

A stage of 18.0 ft (5.49 m) occurred in March 1913.

REMARKS.--Records good. Diurnal fluctuation caused by stone quarry upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	539	56	126	788	170	42	326	174	36	77	46	43
2	196	1,160	130	292	1,090	54	256	154	32	46	38	28
3	94	1,740	138	231	1,130	129	182	188	26	81	31	22
4	56	901	142	900	384	294	290	214	73	198	26	19
5	43	266	188	585	248	355	790	126	377	246	22	17
6	35	182	601	230	196	360	384	87	702	226	19	15
7	32	244	810	126	140	226	224	71	801	96	18	15
8	28	1,430	359	92	110	164	254	68	268	49	18	13
9	24	1,160	628	82	88	128	426	92	134	33	17	11
10	22	360	628	68	70	257	968	144	77	29	18	11
11	19	290	370	57	64	668	539	196	52	24	58	11
12	30	258	222	49	59	710	499	206	58	21	270	9.8
13	38	241	780	46	57	284	1,090	106	173	19	900	11
14	66	2,140	761	40	57	580	485	70	116	17	700	11
15	42	2,230	290	41	170	1,920	266	60	67	15	560	9.1
16	32	704	150	42	212	1,120	194	52	42	15	375	8.4
17	28	242	110	45	138	1,590	186	47	38	13	208	7.5
18	27	202	130	45	96	1,350	368	42	404	13	124	12
19	31	170	134	56	70	652	306	47	211	11	82	9.9
20	28	551	311	64	58	500	254	136	1,360	12	126	9.1
21	24	437	735	52	50	336	196	241	640	15	214	8.4
22	23	260	765	180	48	250	144	92	228	50	114	8.0
23	24	188	531	528	48	204	144	63	114	240	60	23
24	30	142	353	288	43	178	158	56	64	230	44	28
25	37	118	284	160	42	184	140	52	44	260	36	13
26	43	122	244	128	41	395	100	54	36	380	31	12
27	33	170	250	188	40	644	432	60	80	800	27	11
28	28	236	204	426	40	296	1,110	63	205	640	25	8.0
29	27	212	164	535	------	249	381	54	290	390	22	8.0
30	25	144	162	248	------	735	200	50	174	200	24	7.5
31	24	------	581	158	------	396	------	44	------	74	54	------
TOTAL	1,728	16,546	11,280	6,770	4,959	15,240	11,292	3,109	6,924	4,519	4,307	419.6
MEAN	55.7	553	364	218	177	492	376	100	231	146	139	14.0
MAX	539	2,230	810	900	1,130	1,920	1,110	241	1,360	800	900	43
MIN	19	56	110	40	40	42	100	42	26	11	17	7.5
CFSM	.31	3.11	2.04	1.22	.99	2.76	2.11	.56	1.30	.82	.78	.08
IN.	.36	3.47	2.36	1.41	1.04	3.18	2.36	.65	1.45	.94	.90	.09

CAL YR 1972 TOTAL 87,714.4 MEAN 240 MAX 6,590 MIN 3.2 CFSM 1.35 IN 18.33
WTR YR 1973 TOTAL 87,143.6 MEAN 239 MAX 2,230 MIN 7.5 CFSM 1.34 IN 18.21

PEAK DISCHARGE (BASE, 2,500 FT³/S).--Nov. 14 (2245) 2,690 cfs (6.51 ft).

03221000 Scioto River below O'Shaughnessy Dam, near Dublin, Ohio

LOCATION.--Lat 40°08'36", long 83°07'14", Delaware County, on left bank, 0.2 mi (0.3 km) north of county line, 0.8 mi (1.3 km) downstream from O'Shaughnessy Dam, and 3.0 mi (4.8 km) north of Dublin.

DRAINAGE AREA.--980 mi² (2,538 km²).

PERIOD OF RECORD.--April 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.00 ft (236.220 m) above mean sea level, adjustment of 1912. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi (1.3 km) upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft (30 m) downstream at same datum.

AVERAGE DISCHARGE.--52 years, 782 ft³/s (22.15 m³/s).

EXTREMES.--Current year: Maximum discharge, 8,900 ft³/s (252 m³/s) Mar. 17, gage height, 9.69 ft (2.954 m); minimum, 62 ft³/s (1.76 m³/s) Sept. 30.

Period of record: Maximum discharge, 55,200 ft³/s (1,560 m³/s) Jan. 22, 1959, gage height, 22.04 ft (6.718 m), from floodmark; minimum, 0.4 ft³/s (0.011 m³/s) Nov. 8, 1924.

Flood of March 25, 1913 reached a stage of 24.6 ft (7.50 m), discharge, 74,500 ft³/s (2,110 m³/s) at Griggs Dam, 9 mi (14 km) downstream from gage, computed by C. E. Sherman, Ohio State University.

REMARKS.--Records good. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mi (1.3 km) upstream (see station 03220500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1924-35. WSP 1725: 1924. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,720	372	894	3,480	1,090	275	2,340	1,600	460	869	466	320
2	2,240	3,880	829	2,450	3,230	310	1,920	1,240	398	554	353	206
3	1,470	6,590	829	1,720	5,050	519	1,650	1,110	331	499	285	155
4	827	5,570	789	3,090	3,500	1,260	1,510	1,060	375	757	235	137
5	586	3,910	953	3,030	2,510	1,810	2,880	813	725	2,320	202	128
6	517	2,910	2,120	2,020	1,640	2,030	2,880	650	1,350	1,920	176	122
7	478	1,990	3,800	1,200	1,200	1,700	2,270	540	2,310	1,180	159	113
8	424	5,370	3,970	1,000	1,060	1,260	1,720	526	1,780	718	143	110
9	366	5,740	4,720	740	860	970	1,590	540	1,720	473	137	104
10	303	4,670	3,880	600	720	1,190	3,340	688	1,250	369	137	101
11	261	4,210	2,570	480	560	3,120	3,190	1,350	688	398	146	98
12	358	2,960	1,650	420	440	4,760	2,670	2,120	598	315	2,200	93
13	503	2,030	2,810	390	400	4,340	4,220	2,120	710	253	5,300	88
14	531	6,830	3,710	370	440	4,030	3,280	1,480	479	214	3,480	88
15	482	8,370	2,840	350	665	7,770	2,510	885	613	190	3,530	85
16	417	7,370	2,140	360	805	6,750	1,780	658	492	155	3,360	83
17	385	5,900	1,180	390	520	8,040	1,320	568	386	146	2,870	80
18	348	4,500	902	430	460	8,130	1,550	479	673	137	2,270	78
19	324	2,690	1,000	450	430	6,630	1,360	453	733	128	1,190	75
20	300	2,690	1,310	410	400	5,600	1,230	613	4,660	125	688	75
21	270	2,780	2,380	390	360	4,010	1,100	1,010	2,420	134	869	73
22	253	2,180	3,240	580	340	2,820	936	911	1,450	226	1,020	73
23	265	1,650	3,060	1,000	320	2,050	861	673	837	1,040	673	73
24	299	1,230	2,630	1,600	300	1,620	1,020	540	512	1,850	422	70
25	302	1,000	2,230	1,200	280	1,470	1,170	486	386	1,560	315	70
26	309	919	1,920	900	270	1,850	919	473	315	2,200	257	70
27	305	979	1,740	800	280	2,980	1,160	635	347	4,600	222	70
28	291	1,170	1,500	1,500	280	2,240	3,610	902	561	3,360	198	73
29	282	1,240	1,210	2,600	-------	1,720	3,040	650	1,100	2,150	173	73
30	257	1,070	1,080	2,300	-------	2,610	2,250	512	1,160	1,300	198	64
31	261	-------	1,920	1,470	-------	2,640	-------	499	-------	710	416	-------
TOTAL	16,934	102,770	65,806	37,720	28,410	96,504	61,276	26,784	29,819	30,850	32,090	3,048
MEAN	546	3,426	2,123	1,217	1,015	3,113	2,043	864	994	995	1,035	102
MAX	2,720	8,370	4,720	3,480	5,050	8,130	4,220	2,120	4,660	4,600	5,300	320
MIN	253	372	789	350	270	275	861	453	315	125	137	64

CAL YR 1972 TOTAL 539,093 MEAN 1,473 MAX 12,500 MIN 65
WTR YR 1973 TOTAL 532,011 MEAN 1,458 MAX 8,370 MIN 64

03223000 Olentangy River at Claridon, Ohio

LOCATION.--Lat 40°34'58", long 82°59'20", in NW 1/4 sec.26, T.5 S., R.16 E., Marion County, on left bank 900 ft (274 m) downstream from bridge on State Highway 95, 0.5 mi (0.8 km) east of Claridon, 0.8 mi (1.3 km) downstream from Otter Creek, and 1.4 mi (2.3 km) upstream from Beaver Run.

DRAINAGE AREA.--157 mi^2 (407 km^2).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 961.72 ft (293.132 m) above mean sea level, levels by Corps of Engineers. Prior to Aug. 18, 1969 water-stage recorder at site 1,000 ft (305 m) upstream at same datum.

AVERAGE DISCHARGE.--27 years, 148 ft^3/s (4.191 m^3/s), 12.80 in/yr (325.1 mm/yr).

EXTREMES.--Water year 1972: Maximum discharge, 4,100 ft^3/s (116 m^3/s) Apr. 20, gage height, 11.81 ft (3.600 m); minimum, 2.5 ft^3/s (0.071 m^3/s) Oct. 6, 7, 8, 9.

Water year 1973: Maximum discharge, 2,220 ft^3/s (62.9 m^3/s) Mar. 15, gage height, 9.65 ft (2.941 m); minimum, 4.8 ft^3/s (0.14 m^3/s) Sept. 28, 29.

Period of record: Maximum discharge, 14,900 ft^3/s (422 m^3/s) Jan. 22, 1959, gage height, 16.77 ft (5.111 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of contracted-opening measurement of peak flow; no flow Oct. 2-26, 1953, Sept. 14-22, 1955.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1235: 1947, 1948(P). WSP 1908: Drainage area. Revised figures of discharge for the water year 1972, superseding those published in WRD Ohio 1972, are given herewith.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	5.8	49	474	33	219	85	100	162	158	13	12
2	4.8	6.3	31	239	31	740	78	95	112	59	12	11
3	4.3	6.6	22	209	38	822	71	89	81	290	13	11
4	3.4	6.7	15	182	78	444	69	81	62	494	13	11
5	3.2	6.1	16	190	89	245	66	69	51	284	12	12
6	2.8	7.3	19	150	54	152	64	60	44	144	11	13
7	2.5	7.1	104	130	44	135	356	55	40	89	10	11
8	2.5	6.5	248	100	40	174	504	71	35	67	9.8	9.6
9	3.6	6.5	200	141	36	197	255	933	32	64	9.4	8.9
10	9.0	6.9	112	480	32	120	197	1,160	29	76	9.6	8.1
11	19	7.1	83	456	29	107	172	610	26	68	9.4	7.9
12	16	6.9	70	255	27	107	142	257	24	56	8.9	7.8
13	9.8	6.8	62	120	30	269	921	175	95	175	8.1	7.8
14	8.9	6.7	60	84	60	663	1,100	261	512	195	7.8	270
15	8.7	6.7	406	70	261	576	536	993	416	112	9.4	407
16	8.8	6.7	501	62	526	590	369	1,080	188	188	9.0	230
17	9.8	6.5	240	58	410	834	756	540	125	257	75	105
18	7.8	6.4	129	54	270	498	494	285	86	128	166	60
19	6.4	6.8	92	62	250	269	266	192	67	101	243	55
20	5.1	8.1	79	58	170	191	1,770	143	55	116	136	45
21	3.8	10	87	54	130	163	3,650	117	48	84	80	35
22	4.6	12	91	70	105	735	2,270	96	44	51	34	25
23	4.2	8.1	75	140	119	951	1,500	81	41	36	37	20
24	4.7	8.8	60	182	89	488	804	69	38	79	75	27
25	4.7	8.2	52	110	73	261	368	60	36	60	68	33
26	7.1	7.8	48	70	68	194	266	52	33	34	38	80
27	8.0	8.8	49	54	67	159	203	46	36	26	31	348
28	7.6	10	57	46	74	138	158	42	34	23	26	416
29	6.8	14	59	40	96	118	131	39	29	20	22	308
30	6.0	34	275	37	------	104	111	46	91	17	17	713
31	6.2	------	723	35	------	91	------	126	------	15	14	------
TOTAL	205.6	256.2	4,115	4,412	3,329	10,754	17,732	8,023	2,672	3,566	1,227.4	3,308.1
MEAN	6.63	8.54	133	142	115	347	591	259	89.1	115	39.6	110
MAX	19	34	723	480	526	951	3,650	1,160	512	494	243	713
MIN	2.5	5.8	16	35	27	91	64	39	24	15	7.8	7.8
CFSM	.04	.05	.85	.90	.73	2.21	3.76	1.65	.57	.73	.25	.70
IN.	.05	.06	.98	1.05	.79	2.55	4.20	1.90	.63	.84	.29	.78

CAL YR 1971 TOTAL 41,109.0 MEAN 113 MAX 1,820 MIN 2.5 CFSM .72 IN 9.74
WTR YR 1972 TOTAL 59,600.3 MEAN 163 MAX 3,650 MIN 2.5 CFSM 1.04 IN 14.12

Peak Discharge (Base, 1,500 FT^3/S).--Apr. 20 (2130) 4,100 FT^3/S (11.81 ft).

03223000 Olentangy River at Claridon, Ohio--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,160	125	142	783	167	52	226	139	183	190	22	8.6
2	831	758	130	399	714	93	177	111	99	102	21	8.2
3	340	1,270	143	221	978	274	176	102	68	157	19	8.4
4	201	969	166	738	615	384	211	93	58	465	17	7.8
5	198	411	237	676	301	369	676	78	58	831	15	7.2
6	184	242	640	280	217	392	509	65	302	457	14	6.8
7	142	257	984	150	179	244	244	56	885	184	12	6.7
8	118	1,300	597	110	162	177	179	53	673	102	11	6.8
9	90	1,450	367	90	120	132	191	60	230	68	11	7.4
10	67	1,000	436	76	80	374	537	75	125	57	10	7.0
11	52	444	340	60	70	869	561	751	82	159	9.7	6.8
12	85	330	217	50	60	1,040	372	984	77	133	29	8.4
13	214	300	843	45	56	574	289	519	372	58	38	6.8
14	177	1,000	877	43	64	491	194	191	184	42	40	6.8
15	109	1,300	436	43	96	1,880	139	122	80	34	396	7.4
16	85	961	226	41	110	1,610	113	96	62	31	295	12
17	83	407	183	40	150	1,220	104	78	301	25	90	9.3
18	76	276	193	45	100	961	103	66	199	22	44	6.8
19	65	230	146	56	70	610	106	59	98	20	30	6.0
20	58	485	242	59	66	505	99	357	633	19	25	8.4
21	53	428	585	47	64	461	88	380	724	56	21	8.4
22	51	262	717	91	60	334	87	169	287	355	23	5.8
23	58	201	559	237	54	246	76	110	142	190	18	6.3
24	114	166	384	171	48	233	72	177	90	71	16	11
25	125	143	291	97	42	240	65	171	83	47	14	12
26	93	153	237	85	38	289	57	179	63	45	13	7.6
27	76	235	238	122	39	267	80	199	58	102	13	5.7
28	67	280	201	417	41	183	557	110	118	62	12	5.1
29	69	231	164	610	------	151	425	100	849	37	10	5.1
30	109	167	196	301	------	401	191	150	527	28	9.7	5.8
31	114	------	491	199	------	355	------	264	------	24	9.1	------
TOTAL	5,264	15,781	11,608	6,382	4,761	15,411	6,904	6,064	7,710	4,173	1,307.8	226.4
MEAN	170	526	374	206	170	497	230	196	257	135	42.2	7.55
MAX	1,160	1,450	984	783	978	1,880	676	984	885	831	396	12
MIN	51	125	130	40	38	52	57	53	58	19	9.1	5.1
CFSM	1.08	3.35	2.38	1.31	1.08	3.17	1.47	1.25	1.64	.86	.27	.05
IN.	1.25	3.74	2.75	1.51	1.13	3.65	1.64	1.44	1.83	.99	.31	.05

CAL YR 1972 TOTAL 87,676.5 MEAN 240 MAX 3,650 MIN 7.8 CFSM 1.53 IN 20.77
WTR YR 1973 TOTAL 85,591.9 MEAN 234 MAX 1,880 MIN 5.1 CFSM 1.49 IN 20.28

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	2300	8.57	1,600	3-15	1400	9.65	2,220

03224500 Whetstone Creek near Ashley, Ohio

LOCATION.--Lat 40°27'18", long 82°5?'28", in NW 1/4 sec.19, T.7 N., R.18 W., Morrow County, on left bank 400 ft (122 m) upstream from unnamed right bank tributary, 800 ft (244 m) upstream from bridge on State Highway 746, 0.6 mi (1.0 km) downstream from Shaw Creek, and 3.2 mi (5.1 km) north of Ashley.

DRAINAGE AREA.--98.7 mi² (256 km²).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft (287.228 m) above mean sea level, levels by Corps of Engineers.

AVERAGE DISCHARGE.--19 years, 98.0 ft³/s (2.775 m³/s), 13.48 in/yr (342.4 mm/yr).

EXTREMES.--Water year 1972: Maximum discharge, 4,470 ft³/s (127 m³/s) (revised) Apr. 20, gage height, 8.85 ft (2.697 m); minimum, 2.3 ft³/s (0.065 m³/s) Oct. 7, 8.

Water year 1973: Maximum discharge, 2,720 ft³/s (77.0 m³/s) Mar. 15, gage height, 7.10 ft (2.164 m); minimum, 4.4 ft³/s (0.12 m³/s) Sept. 28.

Period of record: Maximum discharge, 19,100 ft³/s (541 m³/s) Jan. 21, 1959, gage height, 14.34 ft (4.371 m), from rating curve extended above 3,900 ft³/s (110 m³/s) on basis of slope-area measurement of peak flow; no flow for many days in 1954-55, and part of day Oct. 3, 1963.

REMARKS.--Records good except those for January and February which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area. Revised figures of discharge for the water year 1972, superseding those published in WRD Ohio 1972 are given herewith.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.4	22	145	18	221	56	57	48	62	25	25
2	3.8	4.7	11	105	17	466	53	69	40	35	23	22
3	3.4	6.7	7.6	98	31	384	49	54	30	994	34	25
4	3.1	5.7	6.6	100	58	187	50	50	25	898	26	29
5	2.8	4.9	6.2	130	76	128	45	45	21	256	21	23
6	2.5	4.9	8.7	84	28	90	43	38	19	126	18	20
7	2.4	5.4	41	70	24	72	438	32	19	79	18	17
8	2.4	5.5	82	56	22	229	319	53	17	60	18	16
9	3.3	5.4	42	56	20	134	141	1,410	15	50	17	15
10	6.9	5.4	25	287	19	102	114	814	14	128	16	13
11	7.0	5.4	20	165	18	78	97	256	12	124	15	13
12	6.5	5.4	18	94	17	83	79	143	12	103	13	13
13	5.7	5.5	14	64	19	135	792	110	87	335	13	13
14	5.1	5.5	37	50	28	305	500	316	230	114	12	1,070
15	4.7	6.2	349	40	188	230	167	600	103	69	22	766
16	4.8	5.3	181	34	250	477	193	400	60	2,080	19	214
17	4.4	4.9	71	30	147	624	466	196	41	1,630	544	108
18	4.1	5.0	42	28	159	243	179	128	30	432	790	85
19	3.3	5.7	28	36	125	153	113	94	24	324	1,130	105
20	3.4	7.9	28	35	85	119	2,330	73	21	420	356	66
21	3.2	6.8	34	33	62	105	1,440	62	19	148	118	47
22	2.8	6.7	36	35	50	676	1,440	53	19	106	76	37
23	3.6	5.5	24	61	44	528	695	44	19	87	165	35
24	5.0	5.4	21	79	42	195	260	39	19	186	268	95
25	5.5	5.7	19	62	40	141	158	34	18	145	126	70
26	5.7	5.4	18	46	72	111	112	29	22	77	85	230
27	6.4	6.4	22	36	71	98	87	25	22	57	90	492
28	5.1	8.6	30	30	65	87	73	23	20	48	68	332
29	4.8	9.5	29	25	105	73	65	22	17	39	49	248
30	4.8	20	343	21	------	67	53	25	116	33	37	1,460
31	4.8	------	541	19	------	60	------	39	------	29	30	------
TOTAL	135.8	189.8	2,155.1	2,159	1,903	6,806	10,607	5,333	1,159	9,283	4,242	5,710
MEAN	4.38	6.33	69.5	69.6	65.6	220	354	172	38.6	299	137	190
MAX	7.0	20	541	287	250	676	2,330	1,410	230	2,080	1,130	1,460
MIN	2.4	4.4	6.2	19	17	60	43	22	12	28	12	13
CFSM	.04	.06	.70	.71	.66	2.23	3.59	1.74	.39	3.03	1.39	1.93
IN.	.05	.07	.81	.81	.72	2.57	4.00	2.01	.44	3.50	1.60	2.15

CAL YR 1971 TOTAL 21,534.9 MEAN 59.0 MAX 1,340 MIN 1.9 CFSM .60 IN 8.12
WTR YR 1972 TOTAL 49,682.7 MEAN 136 MAX 2,330 MIN 2.4 CFSM 1.38 IN 18.73

PEAK DISCHARGE (BASE, 1,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	2100	8.85	4,470	7-16	1700	7.40	2,980
5-9	1500	5.91	1,850	9-14	1800	5.94	1,860
7-3	1930	6.03	1,920				

03224500 Whetstone Creek near Ashley, Ohio--Continued

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	820	190	91	372	128	55	152	102	86	70	27	14
2	256	1.880	93	160	814	102	124	90	56	51	25	12
3	139	1.290	113	126	710	216	122	111	49	66	22	11
4	101	364	140	745	294	248	235	94	56	160	19	10
5	132	209	162	337	182	272	625	76	62	206	18	9.7
6	106	147	595	145	142	238	248	65	187	94	16	9.3
7	85	349	504	100	100	140	145	60	219	59	16	8.5
8	74	1.710	209	70	80	109	130	59	88	46	15	7.6
9	60	735	394	60	68	88	193	66	61	39	15	7.6
10	48	304	444	52	58	170	520	71	49	35	18	7.3
11	42	265	248	46	48	345	383	650	43	165	24	7.0
12	101	196	160	42	42	413	330	225	39	89	251	7.0
13	135	193	922	42	44	179	337	113	58	51	145	6.4
14	92	1.250	417	43	46	394	168	82	53	39	341	6.1
15	68	665	203	45	60	2.030	122	67	39	42	874	6.1
16	68	297	124	44	120	492	102	61	35	32	228	7.0
17	71	193	120	46	94	796	100	59	128	26	96	6.1
18	59	145	110	51	66	476	102	55	88	23	59	5.8
19	59	135	98	62	58	360	98	54	111	22	46	5.8
20	60	326	330	66	52	319	88	173	868	22	53	5.5
21	56	209	548	56	47	265	80	137	279	37	43	5.5
22	50	142	512	157	44	187	72	77	115	62	33	5.5
23	85	115	326	297	41	142	86	66	68	45	28	7.3
24	124	98	222	135	39	145	86	216	53	32	24	6.7
25	94	90	170	90	37	145	79	135	47	50	22	5.5
26	73	111	150	85	36	322	62	90	41	124	20	5.0
27	61	142	147	157	36	294	187	75	45	119	18	4.8
28	61	150	119	536	43	147	595	65	68	54	17	4.6
29	82	122	107	484	-------	124	212	62	394	39	15	4.6
30	94	98	133	206	-------	337	124	66	152	31	15	7.9
31	80	-------	319	147	-------	209	-------	102	-------	27	14	-------
TOTAL	3.436	12.120	8.230	5.004	3.529	4.759	5.898	3,424	3,637	1,955	2.547	217.2
MEAN	111	404	265	161	126	315	197	110	121	63.1	82.2	7.24
MAX	820	1.880	922	745	814	2.030	625	650	868	206	874	14
MIN	42	90	91	42	36	55	62	54	35	22	14	4.6
CFSM	1.12	4.09	2.68	1.63	1.28	3.14	2.00	1.11	1.23	.64	.83	.07
IN.	1.30	4.57	3.10	1.89	1.33	3.68	2.22	1.29	1.37	.74	.96	.08

CAL YR 1972 TOTAL 65.073.0 MEAN 178 MAX 2.160 MIN 12 CFSM 1.80 IN 24.53
WTR YR 1973 TOTAL 59.756.2 MEAN 164 MAX 2.030 MIN 4.6 CFSM 1.66 IN 22.52

PEAK DISCHARGE (BASE, 1,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1830	6.47	2,230	3-15	1330	7.10	2,720
11-8	1200	6.02	1,910				

03225500 Olentangy River near Delaware, Ohio

LOCATION.--Lat 40°21'18", long 83°04'02", NE 1/4 T.5 N., R.19 W., Delaware County, on left bank 500 ft (152 m) upstream from highway bridge, 1,000 ft (305 m) downstream from Delaware Dam, 1,300 ft (396 m) upstream from Norfolk and Western Railway bridge, and 4.0 mi (6.4 km) north of Delaware.

DRAINAGE AREA.--393 mi^2 (1,018 km^2).

PERIOD OF RECORD.--October 1923 to September 1934, April 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 799.58 ft (243.712 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1950, water-stage recorder at site 500 ft (152 m) downstream at datum 76.7 ft (23.38 m) higher.

AVERAGE DISCHARGE.--46 years, 345 ft^3/s (9.770 m^3/s).

EXTREMES.--Current year: Maximum discharge, 4,040 ft^3/s (114 m^3/s) Mar. 15, gage height, 86.45 ft (26.350 m); minimum, 11 ft^3/s (0.31 m^3/s) Aug. 16, gage height, 79.68 ft (24.286 m).

Period of record: Maximum discharge, 14,100 ft^3/s (399 m^3/s) Mar. 21, 1927, gage height, 16.9 ft (5.15 m), site and datum then in use; minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 20, 1930, Sept. 14-29, 1934.

REMARKS.--Records good. Flow completely regulated by Delaware Lake since 1951 (see station 03225000). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	678	399	1,710	444	120	859	505	336	520	50	34
2	2,150	705	368	1,470	1,090	182	262	363	237	275	50	26
3	2,800	49	369	590	2,390	415	16	382	237	275	50	26
4	1,370	1,060	371	1,180	2,090	749	29	342	249	470	50	26
5	538	2,800	476	1,830	1,100	962	409	306	249	1,110	50	26
6	475	3,340	736	1,160	563	1,010	1,150	209	384	1,570	50	26
7	445	2,930	1,940	479	535	866	835	98	825	720	50	26
8	309	479	2,250	360	540	564	609	68	1,300	376	45	26
9	73	435	1,130	290	323	308	392	149	937	208	45	26
10	172	1,990	1,010	170	252	282	1,010	170	358	171	45	26
11	231	2,490	1,280	127	252	1,140	1,400	911	197	171	46	26
12	321	3,060	862	127	250	2,130	1,410	1,080	160	232	695	26
13	430	2,770	1,140	126	249	1,690	1,410	1,180	160	261	449	26
14	477	839	2,260	126	250	873	1,030	1,440	308	202	552	26
15	355	38	1,670	176	300	2,290	575	735	381	166	1,070	26
16	275	1,030	798	201	444	3,970	304	298	290	91	810	26
17	275	2,400	497	201	332	3,310	277	253	173	53	914	26
18	274	3,270	179	159	252	2,970	351	179	301	53	1,050	26
19	199	3,220	234	140	252	2,700	387	144	493	53	268	26
20	164	1,560	489	140	252	1,610	386	451	287	54	217	26
21	164	1,260	1,350	140	251	1,490	313	924	39	55	216	26
22	164	1,280	1,710	263	249	1,010	275	526	1,150	55	115	26
23	169	1,030	1,550	901	206	517	348	269	3,500	268	59	26
24	318	693	1,270	678	186	490	316	269	2,200	393	50	26
25	440	584	849	380	186	694	250	426	230	266	50	26
26	305	583	468	280	141	772	206	464	177	299	50	26
27	253	580	538	387	119	1,050	265	396	113	150	49	26
28	253	714	569	955	119	886	903	395	207	337	49	26
29	137	807	434	1,540	------	551	1,540	232	1,060	264	49	26
30	69	572	375	1,280	------	741	983	156	1,390	142	40	26
31	132	------	707	572	------	1,080	------	321	------	50	36	------
TOTAL	14,767	43,246	28,278	18,138	13,617	36,922	18,500	13,641	17,928	9,310	7,269	788
MEAN	476	1,442	912	585	486	1,191	617	440	598	300	234	26.3
MAX	2,800	3,340	2,260	1,830	2,390	3,970	1,540	1,440	3,500	1,570	1,050	34
MIN	69	38	179	126	119	120	16	68	39	50	36	26

CAL YR 1972 TOTAL 244,814 MEAN 669 MAX 3,970 MIN 11
WTR YR 1973 TOTAL 222,404 MEAN 609 MAX 3,970 MIN 16

03226800 Olentangy River near Worthington, Ohio

LOCATION.--Lat 40°06'37", long 83°01'55", in NW 1/4 T.2 N., R.18 W., Franklin County, on left bank 350 ft (107 m) downstream from Interstate Highway 270 bridge, 1.5 mi (2.4 km) northwest of Worthington and 2.8 mi (4.5 km) upstream from Rush Run.

DRAINAGE AREA.--497 mi^2 (1,287 km^2).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 743.20 ft (226.527 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 439 ft^3/s (12.43 m^3/s).

EXTREMES.--Current year: Maximum discharge, 11,000 ft^3/s (312 m^3/s) June 20, gage height, 11.55 ft (3.520 m); minimum, 21 ft^3/s (0.59 m^3/s) Sept. 15, 16.

Period of record: Maximum discharge, 16,500 ft^3/s (467 m^3/s) Jan. 21, 1959, gage height, 15.68 ft (4.779 m), from high-water mark in well; minimum, 7.6 ft^3/s (0.22 m^3/s) Oct. 8, 9, 1964.

Flood in January 1952 reached a stage of 15.3 ft (4.66 m), discharge, 15,100 ft^3/s (428 m^3/s), from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Delaware Lake 21 mi (34 km) upstream (see station 03225000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1625: 1952(M). WSP 1908: Drainage area. WRD Ohio 1972: 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,480	606	506	1,580	569	158	1,090	714	434	802	77	65
2	1,820	2,730	459	1,810	1,480	171	657	502	277	320	73	55
3	3,240	676	467	918	2,440	354	161	460	268	405	69	44
4	1,840	660	471	1,560	2,610	727	265	473	348	581	65	41
5	768	2,830	540	2,010	1,370	1,030	464	384	502	1,140	62	41
6	577	3,530	1,490	1,630	723	1,150	1,160	346	735	1,630	60	45
7	557	4,170	1,890	1,080	561	923	1,110	225	851	997	60	41
8	447	2,340	3,080	750	625	763	749	166	1,280	493	60	40
9	210	470	1,910	390	541	413	751	209	1,250	289	57	40
10	119	1,850	1,270	280	309	508	1,180	346	479	219	65	40
11	244	2,630	1,300	210	295	795	1,630	901	286	218	87	38
12	486	3,240	1,180	170	283	2,210	1,790	1,180	484	207	816	36
13	550	3,430	1,260	160	278	1,900	1,920	1,270	569	274	910	36
14	570	3,270	2,230	160	290	1,610	1,360	1,410	329	266	531	35
15	505	527	2,110	180	427	2,450	835	1,160	437	191	1,060	30
16	330	613	1,300	230	517	4,560	456	417	414	183	892	30
17	337	2,260	1,130	250	509	5,500	585	310	336	90	850	35
18	321	3,330	365	230	308	4,550	906	282	402	72	1,080	36
19	304	3,670	276	203	293	2,910	606	208	1,390	70	454	35
20	211	2,320	692	192	289	1,830	543	379	4,460	65	218	35
21	210	1,290	1,420	178	282	1,710	477	892	576	89	319	36
22	210	1,350	1,970	325	277	1,200	379	844	453	172	162	37
23	225	1,120	1,780	826	264	767	433	326	3,720	202	111	52
24	268	823	1,350	967	219	506	483	317	3,110	901	77	41
25	509	625	1,150	482	211	713	370	394	490	744	69	41
26	420	641	581	388	207	1,170	294	566	266	473	63	40
27	282	644	610	411	160	1,240	660	489	239	454	62	38
28	282	693	645	1,150	156	1,120	1,240	473	301	206	60	37
29	283	844	584	1,750	------	827	1,640	420	900	347	57	38
30	133	732	472	1,620	------	958	1,330	227	1,580	253	140	38
31	123	------	738	769	------	1,250	------	264	------	106	146	------
TOTAL	17,861	53,914	35,226	22,859	16,493	45,973	25,524	16,554	27,166	12,459	8,812	1,196
MEAN	576	1,797	1,136	737	589	1,483	851	534	906	402	284	39.9
MAX	3,240	4,170	3,080	2,010	2,610	5,500	1,920	1,410	4,460	1,630	1,080	65
MIN	119	470	276	160	156	158	161	166	239	65	57	30

CAL YR 1972 TOTAL 296,858 MEAN 811 MAX 4,370 MIN 40
WTR YR 1973 TOTAL 284,037 MEAN 778 MAX 5,500 MIN 30

03227500 Scioto River at Columbus, Ohio

LOCATION.--Lat 39°54'34", long 83°00'33", Franklin County, on right bank at sewage-treatment works of city of Columbus, 0.4 mi (0.6 km) downstream from bridge on Frank Road, 2.8 mi (4.5 km) upstream from Scioto Big Run, and 5 mi (8 km) downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi² (4,219 km²).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft (207.264 m) above mean sea level. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--53 years, 1,369 ft³/s (38.77 m³/s).

EXTREMES.--Current year: Maximum discharge, 38,800 ft³/s (1,100 m³/s) June 20, gage height, 24.12 ft (7.352 m); minimum, 170 ft³/s (4.81 m³/s) Sept. 16, 22.

Period of record: Maximum discharge, 68,200 ft³/s (1,930 m³/s) Jan. 22, 1959, gage height, 27.22 ft (8.297 m), from high-water mark in well, from rating curve extended above 46,000 ft³/s (1,300 m³/s); minimum, 42 ft³/s (1.19 m³/s) Sept. 6, 1930.

Flood of Mar. 25, 1913 reached a stage of 25.9 ft (7.89 m), discharge, 138,000 ft³/s (3,910 m³/s), estimated by Franklin County Conservancy District.

REMARKS.--Records good. Flow regulated by Griggs Reservoir 10.4 mi (16.7 km) upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi (32.8 km) upstream (see station 03220500), and Delaware Lake 35 mi (56 km) upstream from station (see station 03225000). Records include only part of sewage return flow for city of Columbus. Water supply for city of Columbus is obtained from Scioto River downstream from Griggs Dam, Big Walnut Creek downstream from Central College, and from well field in Alum Creek basin. For statement on diversions from Alum Creek basin and Big Walnut Creek, see REMARKS for stations 03229000 and 03229500. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,660	975	1,610	4,870	1,960	532	3,950	2,800	1,040	2,410	839	741
2	4,120	5,960	1,440	5,080	3,880	551	3,120	2,020	912	1,290	638	512
3	4,960	7,730	1,440	3,410	7,430	758	2,180	1,730	758	1,440	554	374
4	3,480	6,340	1,400	4,960	7,000	1,630	2,260	1,690	1,170	1,580	482	320
5	1,980	6,550	1,570	5,610	4,630	2,830	3,240	1,380	2,080	3,210	422	310
6	1,360	6,620	3,670	4,380	2,990	3,360	4,210	1,140	2,180	3,990	386	340
7	1,270	5,720	5,360	2,590	2,080	2,950	3,840	933	3,360	2,970	350	285
8	1,090	8,830	7,810	1,540	2,010	2,430	3,020	856	3,140	1,610	335	255
9	870	6,640	7,950	1,210	1,680	1,600	2,740	947	3,350	1,120	320	275
10	564	6,360	5,960	1,050	1,260	1,690	4,360	926	2,270	944	356	270
11	571	7,100	4,520	828	1,060	2,920	5,390	1,710	1,320	853	350	250
12	1,170	6,580	3,610	723	926	6,500	4,840	3,250	1,210	749	2,290	245
13	1,210	6,080	3,720	695	877	6,570	6,580	3,470	2,000	727	5,980	230
14	1,240	10,900	5,950	667	967	5,590	5,420	3,050	1,050	685	4,670	235
15	1,200	8,920	5,820	709	1,300	9,370	3,800	2,590	1,040	632	4,520	220
16	947	8,040	3,880	730	1,490	11,100	2,730	1,220	1,470	530	4,730	200
17	856	8,040	2,230	723	1,310	12,900	2,390	982	1,700	422	4,000	225
18	800	8,110	1,500	730	1,070	11,700	3,960	863	2,600	340	3,610	220
19	793	7,070	1,540	695	1,030	9,930	2,610	870	1,860	325	2,440	215
20	618	5,680	2,230	702	967	7,950	2,200	1,030	20,600	348	1,440	220
21	564	4,340	3,540	681	870	6,370	1,910	1,580	5,390	1,130	1,240	210
22	525	3,890	5,430	1,080	807	4,630	1,610	2,030	2,780	598	1,400	215
23	564	3,220	5,290	1,920	786	3,340	1,740	1,150	4,190	1,110	1,110	350
24	604	2,440	4,400	2,990	716	2,380	1,690	961	4,440	2,050	776	240
25	828	1,850	3,850	1,960	660	2,410	1,720	1,030	1,840	3,880	602	215
26	828	1,710	2,930	1,430	660	3,310	1,500	1,630	979	2,290	536	215
27	688	1,720	2,640	1,320	597	4,680	1,890	1,480	1,040	4,750	464	210
28	716	1,870	2,460	2,360	545	3,980	4,770	1,510	1,240	3,990	398	210
29	667	2,200	2,120	4,490	------	3,320	5,080	1,420	1,750	3,070	388	345
30	519	2,110	1,730	4,270	------	4,030	4,200	1,250	3,080	2,050	578	320
31	454	------	2,140	2,930	------	4,340	------	1,040	------	1,280	1,370	------
TOTAL	40,716	164,695	109,760	67,333	51,518	145,651	99,000	48,538	82,123	52,432	47,504	8,512
MEAN	1,313	5,490	3,540	2,172	1,840	4,698	3,300	1,566	2,734	1,691	1,532	284
MAX	4,960	10,900	7,950	5,610	7,430	12,900	6,580	3,470	20,600	4,750	5,980	741
MIN	454	975	1,400	667	545	532	1,500	856	758	325	320	200

CAL YR 1972 TOTAL 920,361 MEAN 2,515 MAX 12,500 MIN 195
WTR YR 1973 TOTAL 917,768 MEAN 2,514 MAX 20,600 MIN 200

03228500 Big Walnut Creek at Central College, Ohio

LOCATION.--Lat 40°06'13", long 82°53'03", T.2 N., R.17 W., Franklin County, on right bank at upstream side of county road bridge, 0.2 mi (0.3 km) east of Central College, 0.4 mi (0.6 km) downstream from Hoover Dam, and 3 mi (5 km) southeast of Westerville.

DRAINAGE AREA.--190 mi² (492 km²).

PERIOD OF RECORD.--July 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.16 ft (248.461 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 181 ft³/s (5.126 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,120 ft³/s (173 m³/s) June 20, gage height, 12.20 ft (3.719 m); minimum daily discharge, 80 ft³/s (2.27 m³/s) June 16.

Period of record: Maximum discharge, 23,800 ft³/s (674 m³/s) Jan. 21, 1959, gage height, 19.75 ft (6.020 m), from rating curve extended above 7,200 ft³/s (204 m³/s) on basis of computation of peak flow over Hoover Dam; no flow for many days in 1944 and 1955.

REMARKS.--Records good. Flow completely regulated by Hoover Reservoir 0.4 mi (0.6 km) upstream since September 1954 (see station 03228400). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1938. WSP 1435: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	110	418	457	245	87	393	163	102	177	99	122
2	109	205	419	372	805	91	273	131	96	114	119	115
3	132	1,650	409	307	1,080	83	215	217	84	157	114	122
4	112	536	471	1,120	645	83	461	181	110	379	119	135
5	113	322	470	945	419	89	1,220	128	900	559	112	131
6	117	235	643	517	299	92	421	109	967	533	128	155
7	101	326	897	294	231	89	281	101	888	177	137	119
8	105	2,650	772	246	272	93	332	98	268	119	131	121
9	108	1,550	927	211	148	89	361	135	144	121	128	104
10	107	1,100	911	149	131	83	1,160	189	95	104	110	121
11	111	560	753	128	110	88	612	1,010	95	122	117	119
12	112	330	606	113	101	84	527	393	99	157	202	107
13	110	260	730	101	89	99	1,100	195	215	110	202	121
14	97	2,500	748	104	121	112	402	137	281	114	204	107
15	104	1,100	550	105	189	1,440	240	109	90	101	179	115
16	107	480	413	112	303	579	159	109	80	112	115	112
17	110	380	312	99	223	1,810	479	102	690	119	115	119
18	96	280	189	101	167	838	2,510	99	1,630	128	122	109
19	105	220	173	97	150	628	827	106	1,600	128	110	112
20	110	290	347	94	128	612	347	89	3,800	117	177	102
21	104	400	668	94	118	495	238	117	4,360	95	161	142
22	107	430	862	142	93	320	189	112	2,870	109	109	109
23	108	440	649	122	101	248	224	115	593	128	117	109
24	120	440	431	171	101	226	352	106	181	171	109	109
25	99	440	317	211	96	226	222	109	129	831	114	112
26	97	460	275	211	108	650	148	107	114	608	122	115
27	91	460	252	224	96	917	312	89	106	586	142	124
28	96	470	242	681	96	315	1,130	98	102	240	137	112
29	90	450	220	975	------	318	352	106	157	215	140	101
30	97	418	217	497	------	1,060	213	112	265	155	133	96
31	90	------	285	297	------	486	------	114	------	107	175	------
TOTAL	3,267	19,492	15,576	9,297	6,665	12,430	15,700	4,986	21,111	6,893	4,199	3,497
MEAN	105	650	502	300	238	401	523	161	704	222	135	117
MAX	132	2,650	927	1,120	1,080	1,810	2,510	1,010	4,360	831	204	155
MIN	90	110	173	94	89	83	148	89	80	95	99	96

CAL YR 1972 TOTAL 91,442 MEAN 250 MAX 4,890 MIN 74
WTR YR 1973 TOTAL 123,113 MEAN 337 MAX 4,360 MIN 80

03228805 Alum Creek at Africa, Ohio

LOCATION.--Lat 40°10'56", long 82°57'42", in SE 1/4 sec.1, T.3 N., R.18 W., Delaware County, on left bank at downstream side of bridge on Orange Township Road 109, 0.3 mi (0.5 km) west of Africa, 0.3 mi (0.5 km) downstream from outlet of Alum Creek dam, 2.7 mi (4.3 km) upstream from Westerville Reservoir outlet, and 4.2 mi (6.8 km) northwest of Westerville.

DRAINAGE AREA.--122 mi² (316 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962, June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 817.28 ft (249.107 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 125 ft³/s (3.540 m³/s), 13.91 in/yr (353.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,630 ft³/s (159 m³/s) June 20, gage height, 13.51 ft (4.118 m); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 18.

Period of record: Maximum discharge, 6,160 ft³/s (174 m³/s) Mar. 10, 1964, gage height, 13.95 ft (4.252 m), from graph based on gage readings; no flow at times 1963-65.

Flood of Mar. 5, 1963 reached a stage of 14.2 ft (4.33 m), from floodmarks, discharge, 6,460 ft³/s (183 m³/s).

REMARKS.--Records good. Flow partially regulated by unfinished Alum Creek Dam. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	150	107	320	179	46	236	119	78	59	21	10
2	1,060	683	130	271	578	62	166	98	49	45	19	1.5
3	186	1,920	138	177	804	125	126	119	39	188	17	3.2
4	105	752	134	570	523	240	251	110	96	117	7.0	3.6
5	140	658	201	619	238	285	637	77	370	303	11	4.9
6	135	383	403	418	164	323	433	62	460	185	11	4.4
7	94	271	832	247	120	183	179	55	495	62	9.1	2.6
8	72	1,130	622	130	100	125	179	70	162	42	8.0	2.0
9	54	1,090	622	84	88	90	260	107	82	32	8.7	2.5
10	39	670	640	70	78	247	586	132	58	28	9.1	1.9
11	32	568	510	50	64	203	530	555	46	26	27	2.5
12	137	345	348	38	58	245	378	560	117	23	343	2.8
13	240	227	438	34	54	148	670	142	698	21	578	2.6
14	120	1,130	510	35	58	240	345	85	388	18	218	2.2
15	72	1,100	365	38	201	1,480	166	66	69	17	586	2.8
16	63	570	265	38	415	836	117	56	71	14	583	2.9
17	83	495	160	39	160	916	227	52	156	17	132	2.8
18	62	256	130	46	110	844	688	47	348	12	67	1.7
19	56	144	104	58	70	545	318	48	340	5.7	45	3.6
20	57	310	208	59	60	425	188	117	3,540	16	89	3.8
21	49	340	478	59	56	368	138	95	860	20	156	3.8
22	45	214	543	136	52	251	101	60	358	54	54	4.0
23	49	142	418	288	48	150	136	53	152	55	29	4.2
24	95	106	335	288	45	140	190	51	88	50	31	4.0
25	78	93	232	170	42	138	110	49	68	126	24	4.2
26	59	112	154	102	40	385	80	49	94	146	22	4.7
27	48	160	177	179	38	670	276	54	98	303	18	4.0
28	47	168	148	415	38	285	808	57	89	130	16	4.9
29	59	150	123	592	------	201	505	59	305	49	15	5.7
30	85	112	156	530	------	510	166	89	102	31	26	6.3
31	75	------	232	251	------	345	------	121	------	23	48	------
TOTAL	4,846	14,447	10,023	6,351	4,481	11,051	9,190	3,414	9,796	2,217.7	3,227.9	110.1
MEAN	156	482	323	205	160	356	306	110	327	71.5	104	3.67
MAX	1,350	1,920	832	619	804	1,480	808	560	3,540	303	586	10
MIN	32	93	104	34	38	46	80	47	39	5.7	7.0	1.5
CFSM	1.28	3.95	2.65	1.68	1.31	2.92	2.51	.90	2.68	.59	.85	.03
IN.	1.48	4.41	3.06	1.94	1.37	3.37	2.80	1.04	2.99	.68	.98	.03

CAL YR 1972 TOTAL 79,273.9 MEAN 217 MAX 3,070 MIN 1.0 CFSM 1.78 IN 24.17
WTR YR 1973 TOTAL 79,154.7 MEAN 217 MAX 3,540 MIN 1.5 CFSM 1.78 IN 24.14

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0630	10.16	2,610	11-14	2130	9.10	1,960	6-20	0700	13.51	5,630
11-8	2000	9.18	2,010	3-15	1430	9.26	2,060	8-16	0430	8.55	1,660

03229000 Alum Creek at Columbus, Ohio

LOCATION.--Lat 39°56'42", long 82°56'28", in NW 1/4 sec.24, T.5 N., R.22 W., Franklin County, on left bank 0.2 mi (0.3 km) downstream from Livingston Avenue Bridge in Columbus, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--189 mi^2 (490 km^2).

PERIOD OF RECORD.--July 1923 to December 1935, January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 733.69 ft (223.629 m) above mean sea level.

AVERAGE DISCHARGE.--47 years, 167 ft^3/s (4.729 m^3/s), 12.00 in/yr (304.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,620 ft^3/s (244 m^3/s) June 20, gage height, 12.71 ft (3.874 m); minimum, 8.2 ft^3/s (0.23 m^3/s) Sept. 21.

Period of record: Maximum discharge, 26,400 ft^3/s (748 m^3/s) Jan. 22, 1959, gage height, 19.59 ft (5.971 m) (from high-water mark in well), from rating curve extended above 17,000 ft^3/s (481 m^3/s) on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

REMARKS.--Records good except those for period of no gage height record Dec. 17 to Feb. 2, which are fair. There was no pumpage from the Alum Creek well field this year. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 758: 1933. WSP 1305: 1928(M). WSP 1908: Drainage area.

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
TABLE PRINTED 5-23-74
ALUM CREEK AT COLUMBUS, OHIO NUMBER 03229000
DRAINAGE AREA 189.000 SQ MI

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,380	311	161	420	300	69	385	205	141	97	35	108
2	1,170	1,470	181	400	860	94	286	177	75	78	30	36
3	489	2,220	197	370	975	153	219	173	53	193	26	20
4	186	1,040	197	640	770	304	450	181	201	223	23	16
5	182	771	286	1,100	381	385	730	133	785	193	19	16
6	203	597	840	600	273	435	620	108	630	295	17	45
7	151	495	920	360	210	300	304	87	615	101	19	20
8	119	1,490	1,070	160	219	201	318	101	304	50	18	15
9	96	1,540	1,010	130	185	145	390	165	133	49	19	15
10	73	831	825	110	110	408	725	165	81	37	29	14
11	63	711	675	80	90	354	690	435	58	125	21	13
12	207	513	475	66	72	345	555	680	144	41	510	10
13	301	385	575	62	58	255	880	268	530	35	555	10
14	207	1,740	625	58	90	372	585	145	530	34	403	10
15	125	1,470	500	56	190	1,510	295	115	111	34	358	10
16	100	740	367	60	340	1,100	214	87	173	26	640	9.4
17	106	605	290	66	210	1,200	385	75	435	23	197	8.8
18	111	430	200	74	150	1,060	1,390	69	700	23	97	9.4
19	97	228	170	84	110	715	585	108	650	22	72	8.8
20	88	363	230	94	100	530	340	153	7,230	32	131	8.8
21	81	412	500	80	90	450	250	153	2,630	223	173	8.8
22	71	327	600	190	80	349	205	101	510	223	94	15
23	82	210	540	320	74	250	295	75	277	250	49	27
24	101	157	450	460	69	205	318	75	157	81	32	12
25	128	129	290	280	63	214	223	125	118	535	29	12
26	96	137	250	190	66	475	169	165	96	237	26	11
27	84	189	230	180	75	865	394	210	125	259	26	10
28	91	223	210	300	66	500	930	115	153	246	21	10
29	93	210	200	880	------	394	735	118	282	97	20	78
30	106	177	190	620	------	805	286	185	193	56	87	35
31	134	------	240	350	------	560	------	197	------	41	295	------
TOTAL	6,515	20,111	13,494	8,840	6,276	15,002	14,151	5,149	18,167	4,010	4,073	620.0
MEAN	210	670	435	285	224	484	472	166	606	129	131	20.7
MAX	1,380	2,220	1,070	1,100	975	1,510	1,390	680	7,230	535	640	108
MIN	63	129	161	56	58	69	169	69	53	22	17	8.8
CFSM	1.11	3.55	2.30	1.51	1.19	2.56	2.50	.88	3.21	.68	.69	.11
IN.	1.28	3.96	2.66	1.74	1.24	2.95	2.79	1.01	3.58	.79	.80	.12

CAL YR 1972 TOTAL 118,346.7 MEAN 323 MAX 5,420 MIN 9.7 CFSM 1.71 IN 23.29
WTR YR 1973 TOTAL 116,408.0 MEAN 319 MAX 7,230 MIN 8.8 CFSM 1.69 IN 22.91

Peak Discharge (Base, 3,000 FT^3/S).--June 20 (1200) 8,620 FT^3/S (12.71 ft).

Note.--No gage height record Dec. 17 to Feb. 2.

03229500 Big Walnut Creek at Rees, Ohio

LOCATION.--Lat 39°51'24", long 82°57'26", in NE 1/4 sec.26, T.4 N., R.22 W., Franklin County, on right bank at downstream side of bridge on Reese Road, 0.5 mi (0.8 km) southwest of Rees, 4.2 mi (6.8 km) downstream from Alum Creek, and 10.5 mi (16.9 km) upstream from mouth.

DRAINAGE AREA.--544 mi² (1,409 km²).

PERIOD OF RECORD.--August 1921 to December 1935. October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 698.20 ft (212.811 m) above mean sea level. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mi (0.5 km) upstream at datum 2.00 ft (0.610 m) higher prior to Oct. 1, 1924, at present datum therafter.

AVERAGE DISCHARGE.--49 years, 503 ft³/s (14.24 m³/s), 12.55 in/yr (318.8 mm/yr) (adjusted for diversion).

EXTREMES.--Current year: Maximum discharge, 12,600 ft³/s (357 m³/s) June 20, gage height, 14.96 ft (4.560 m); minimum, 52 ft³/s (1.47 m³/s) Sept. 22.

Period of record: Maximum discharge, 59,800 ft³/s (1,690 m³/s) Jan. 22, 1959, gage height, 22.03 ft (6.715 m) (from high-water mark in well), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 5 ft³/s (0.14 m³/s) Sept. 4, 5, 10-12, 1925.

Flood of Mar. 25, 1913 reached a stage of 20.5 ft (6.25 m), present datum, at site 0.3 mi (0.5 km) upstream.

REMARKS.--Records good. Since September 1954, flow regulated by Hoover Reservoir 26 mi (42 km) upstream (see station 03228400). Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 mi (34 km) upstream from station, for municipal water supply for the city of Columbus. For statement on pumpage from Alum Creek basin into municipal supply system of the city of Columbus, see REMARKS for station 03229000. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1053: 1929, 1933(M), 1943(M), 1945. WSP 1305: 1923(M), 1925-26(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,970	582	672	1,100	643	187	1,040	512	414	514	189	446
2	1,360	2,410	709	897	1,970	205	764	434	268	339	149	196
3	806	4,240	706	739	2,630	263	576	421	196	480	134	121
4	391	2,390	675	3,070	1,850	420	1,080	471	434	778	118	99
5	399	1,290	938	2,350	1,030	542	2,590	364	2,310	996	111	92
6	357	980	1,890	1,420	712	647	1,540	286	2,380	808	98	132
7	294	1,080	2,170	788	595	484	795	237	2,590	676	98	208
8	237	4,680	2,400	480	520	362	926	245	1,100	307	93	142
9	193	4,580	3,240	370	450	287	978	315	528	221	91	102
10	158	1,650	2,230	300	310	416	2,310	309	341	310	107	101
11	130	1,330	1,730	250	250	522	1,920	857	244	843	136	83
12	546	1,070	1,250	200	230	465	1,330	1,470	421	326	723	78
13	511	773	1,470	190	210	387	2,630	606	1,060	277	904	71
14	399	4,960	1,610	182	230	362	1,550	337	1,060	184	1,380	71
15	251	4,510	1,310	192	350	2,550	778	260	413	197	894	66
16	196	1,670	1,040	201	760	2,840	567	207	625	159	1,020	63
17	189	1,080	672	221	520	3,320	616	200	1,160	136	418	62
18	205	828	543	249	380	3,010	4,000	172	4,480	130	266	67
19	208	590	494	266	330	1,840	2,630	189	2,130	125	175	63
20	166	780	1,570	274	301	1,440	1,010	355	9,420	128	365	60
21	156	864	1,540	222	270	1,180	681	276	10,800	819	391	57
22	144	580	1,740	727	234	837	524	208	4,670	593	297	58
23	160	699	1,570	948	223	633	798	171	1,970	1,080	160	234
24	186	783	1,050	635	200	520	951	166	786	463	126	98
25	223	751	811	572	187	506	688	180	513	2,330	109	74
26	179	745	702	490	192	895	496	437	408	1,670	106	63
27	152	739	684	675	206	2,570	755	743	455	1,130	95	56
28	166	774	608	1,310	196	1,190	2,690	605	529	807	92	56
29	164	754	534	2,310	------	766	1,670	395	588	422	86	72
30	175	693	523	1,470	------	2,490	721	451	543	322	193	272
31	203	------	802	883	------	1,680	------	825	------	230	986	------
TOTAL	10,874	48,855	37,883	23,981	15,979	33,816	39,604	12,704	52,836	17,800	10,110	3,363
MEAN	351	1,629	1,222	774	571	1,091	1,320	410	1,761	574	326	112
MAX	1,970	4,960	3,240	3,070	2,630	3,320	4,000	1,470	10,800	2,330	1,380	446
MIN	130	580	494	182	187	187	496	166	196	125	86	56
(/)	102	97.3	97.6	99.9	100	101	98.4	99.0	106	107	112	112

CAL YR 1972 TOTAL 256,757 MEAN 702 MAX 7,600 MIN 41
WTR YR 1973 TOTAL 307,805 MEAN 843 MAX 10,800 MIN 56

(/) Diversion, equivalent in cubic feet per second, for city of Columbus.

03230500 Big Darby Creek at Darbyville, Ohio

LOCATION.--Lat 39°42'03", long 83°06'35", Pickaway County, near right bank on downstream side of pier of bridge on State Highway 316, 0.4 mi (0.6 km) northeast of Darbyville, 0.4 mi (0.6 km) upstream from Lizzard Run, and 3 mi (5 km) downstream from Greenbrier Creek.

DRAINAGE AREA.--534 mi² (1,383 km²).

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.

GAGE.--Water-stage recorder. Datum of gage is 713.69 ft (217.533 m) above mean sea level. Prior to Mar. 17, 1940 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 438 ft³/s (12.40 m³/s), 11.14 in/yr (283.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,940 ft³/s (253 m³/s) June 21, gage height, 12.02 ft (3.664 m); minimum, 69 ft³/s (1.95 m³/s) Sept. 25, 26, 29, 30.

Period of record: Maximum discharge, 49,000 ft³/s (1,390 m³/s) Jan. 22, 1959, gage height, 17.94 ft (5.468 m), from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of contracted-opening measurement of peak flow; minimum observed, 1.4 ft³/s (0.040 m³/s) Sept. 17, 1932.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1083: 1922(M), 1924(M), 1927(M), 1933(M), 1938(M). WSP 1305: 1928-31(M), 1934(M), 1945(M). WSP 1505: 1932(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	641	512	604	1,630	593	237	1,410	796	471	628	228	327
2	697	1,430	621	1,320	1,170	239	1,190	677	366	502	198	222
3	407	2,920	667	880	2,540	258	916	642	306	656	175	164
4	286	2,540	653	1,900	1,600	336	988	593	339	1,100	160	133
5	272	1,200	646	2,320	1,020	495	1,570	520	1,110	1,340	144	119
6	256	788	1,070	1,250	808	639	1,630	443	1,590	960	132	114
7	221	864	1,840	816	691	607	1,060	397	1,800	663	124	108
8	196	2,170	1,600	593	649	499	984	384	1,600	509	118	108
9	169	3,080	2,460	530	600	415	1,070	439	900	411	110	104
10	141	1,690	2,400	481	509	378	1,660	436	642	351	109	104
11	121	1,140	1,730	432	422	772	1,860	390	509	429	167	97
12	585	968	1,120	439	375	1,070	1,350	411	425	369	174	94
13	543	884	1,180	390	363	920	2,020	381	1,270	285	2,030	90
14	414	3,230	2,090	357	372	649	2,140	312	1,370	239	3,250	88
15	306	4,740	1,360	321	572	1,600	1,350	283	772	241	1,710	85
16	258	3,480	988	298	733	2,870	968	263	611	202	1,740	82
17	221	1,580	642	280	560	2,480	864	255	892	179	788	80
18	184	1,120	621	290	490	3,530	1,950	241	3,390	167	530	79
19	163	904	653	330	450	2,310	2,150	232	2,480	153	387	76
20	146	968	944	360	384	1,730	1,600	290	5,930	160	351	77
21	132	1,340	1,490	336	351	1,360	1,190	309	6,790	705	471	74
22	124	1,020	1,840	418	324	1,010	924	298	2,170	824	565	72
23	121	812	1,690	972	306	820	1,060	250	1,220	537	351	82
24	119	681	1,260	1,140	298	702	1,010	239	892	408	263	81
25	119	611	1,020	737	265	667	804	253	748	888	218	70
26	116	597	888	593	250	1,080	684	674	632	614	192	85
27	115	586	840	621	250	2,190	840	828	607	663	172	83
28	122	593	764	808	246	1,630	2,080	681	1,070	1,220	157	75
29	121	663	653	1,230	------	1,120	1,890	590	1,030	495	143	71
30	116	632	604	1,000	------	2,050	1,020	530	864	333	136	70
31	115	------	684	688	------	1,950	------	558	------	258	228	------
TOTAL	7,547	43,743	35,622	23,760	17,191	36,613	40,232	13,595	42,796	16,489	15,521	3,114
MEAN	243	1,458	1,149	766	614	1,181	1,341	439	1,427	532	501	104
MAX	697	4,740	2,460	2,320	2,540	3,530	2,150	828	6,790	1,340	3,250	327
MIN	115	512	604	280	246	237	684	232	306	153	109	70
CFSM	.46	2.73	2.15	1.43	1.15	2.21	2.51	.82	2.67	1.00	.94	.19
IN.	.53	3.05	2.48	1.66	1.20	2.55	2.80	.95	2.98	1.15	1.08	.22

CAL YR 1972 TOTAL 231,566 MEAN 633 MAX 5,790 MIN 29 CFSM 1.19 IN 16.13
WTR YR 1973 TOTAL 296,223 MEAN 812 MAX 6,790 MIN 70 CFSM 1.52 IN 20.64

PEAK DISCHARGE (BASE, 4,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	2130	9.68	5,080	6-21	0100	12.02	8,940

03230800 Deer Creek at Mount Sterling, Ohio

LOCATION.--Lat 39°42'54", long 83°15'26", Madison County, on left bank at downstream side of bridge on State Highway 56, 0.2 mi (0.3 km) downstream from unnamed right bank tributary, 0.6 mi (1.0 km) southeast of Mount Sterling, and 4.9 mi (7.9 km) upstream from Duffs Fork.

DRAINAGE AREA.--228 mi² (591 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 836.25 ft (254.889 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 390 ft³/s (11.04 m³/s), 13.59 in/yr (345.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,120 ft³/s (202 m³/s) June 20, gage height, 10.15 ft (3.094 m); minimum, 31 ft³/s (0.88 m³/s) Sept. 26, 28, 29.
Period of record: Maximum discharge, 15,200 ft³/s (430 m³/s) May 24, 1968, gage height 11.87 ft (3.618 m); minimum, 5.1 ft³/s (0.14 m³/s) Nov. 24, 1970.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	497	300	598	250	93	804	390	177	294	158	68
2	200	1.540	338	390	861	95	586	328	139	236	138	58
3	137	1.670	385	345	843	105	463	328	116	1.300	120	54
4	106	818	334	1.290	522	119	611	271	122	2.660	110	50
5	113	555	339	800	407	144	861	229	500	1.420	100	49
6	135	430	731	487	342	189	537	196	610	631	91	49
7	115	595	727	300	300	198	426	178	488	408	86	47
8	97	1.720	821	230	270	179	498	177	329	304	81	43
9	80	994	1.690	210	240	157	551	189	229	245	75	42
10	67	670	1.160	180	200	154	921	167	178	212	82	47
11	58	589	728	170	160	181	722	152	146	192	379	45
12	524	493	529	160	150	207	591	138	136	167	229	42
13	575	509	794	150	140	179	1.050	125	642	146	178	39
14	361	3.000	695	140	150	176	677	117	445	140	482	38
15	252	1.770	526	140	340	661	465	112	239	267	416	39
16	192	890	405	148	333	540	359	107	215	197	251	38
17	158	635	285	146	221	1.310	415	107	757	151	180	35
18	125	498	329	151	200	1.010	1.550	100	2.950	129	138	35
19	110	437	305	168	170	811	1.330	100	903	118	129	35
20	94	588	716	162	160	605	950	137	4.400	118	203	35
21	86	499	862	137	150	475	608	126	1.740	575	175	33
22	82	416	793	207	139	379	452	107	732	1.140	123	33
23	81	352	619	413	130	322	699	101	474	647	100	35
24	79	311	492	339	120	290	674	124	367	404	89	39
25	71	291	414	260	114	288	461	129	325	810	84	33
26	68	295	386	233	112	844	367	148	274	668	75	32
27	65	280	378	274	110	1.040	650	176	328	420	70	33
28	66	309	330	364	100	617	1.360	180	362	297	65	31
29	67	317	290	534	------	585	697	177	701	229	62	31
30	62	312	285	340	------	1.540	474	208	412	186	63	32
31	62	------	386	264	------	918	------	186	------	164	82	------
TOTAL	4.608	22.280	17.372	9.730	7.234	14.411	20.809	5.310	19.436	14.875	4.614	1.220
MEAN	149	743	560	314	258	465	694	171	648	480	149	40.7
MAX	575	3.000	1.690	1.290	861	1.540	1.550	390	4.400	2.660	482	68
MIN	58	280	285	137	100	93	359	100	116	118	62	31
CFSM	.65	3.26	2.46	1.38	1.13	2.04	3.04	.75	2.84	2.11	.65	.18
IN.	.75	3.64	2.83	1.59	1.18	2.35	3.40	.87	3.17	2.43	.75	.20

CAL YR 1972 TOTAL 102.113 MEAN 279 MAX 3.000 MIN 12 CFSM 1.22 IN 16.66
WTR YR 1973 TOTAL 141.899 MEAN 389 MAX 4.400 MIN 31 CFSM 1.71 IN 23.15

PEAK DISCHARGE (BASE, 1,900 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	2230	8.08	2,570	12-9	0400	7.66	2,010	6-20	1030	10.15	7,120
11-8	0930	7.66	2,010	3-30	0900	7.60	1,940	7-4	1130	8.47	3,190
11-14	1330	8.72	3,640	6-18	0830	9.12	4,400				

03230900 Deer Creek near Pancoastburg, Ohio

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, on left bank 200 ft (61 m) downstream from bridge on Crownover Mill Road, 1,200 ft (366 m) downstream from Deer Creek Dam, and 2.8 mi (4.5 km) east of Pancoastburg.

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1964-66, July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (Corps of Engineers bench mark). Oct. 23, 1963, to June 30, 1966, crest-stage at site 200 ft (61 m) upstream at datum 59.84 ft (18.239 m) higher.

AVERAGE DISCHARGE.--7 years, 264 ft³/s (7.476 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 4, gage height, 73.57 ft (22.424 m); minimum, 13 ft³/s (0.37 m³/s) Mar. 13, 14.

Period of record: Maximum discharge, 19,500 ft³/s (552 m³/s) (estimated) Mar. 10, 1964, gage height, 80.93 ft (24.667 m), present datum. No flow May 25-27, 1968, result of dam closure.

REMARKS.--Records good. Flow regulated by Deer Creek Lake (see station 03230890). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ohio 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	493	488	727	303	111	979	538	263	425	170	66
2	385	965	443	533	610	97	700	452	217	267	160	64
3	287	1,070	443	380	1,040	97	479	371	173	605	125	64
4	178	1,470	443	1,260	763	97	538	367	128	1,010	108	71
5	178	1,580	448	1,210	457	128	686	248	349	1,400	108	71
6	178	1,530	520	547	425	170	592	175	704	1,350	108	69
7	178	1,360	785	376	394	217	461	175	601	1,330	76	66
8	155	1,120	884	376	358	217	578	190	466	1,190	60	53
9	84	596	1,020	335	315	217	961	238	248	745	62	49
10	72	542	1,250	255	248	217	785	287	175	457	62	50
11	72	1,150	1,430	220	205	217	925	259	175	319	340	49
12	291	1,130	1,510	208	165	125	488	178	175	33	448	42
13	632	1,130	1,280	190	185	13	961	145	175	118	241	33
14	380	745	983	190	199	13	803	135	452	148	542	34
15	307	220	758	211	323	13	295	111	551	193	929	35
16	205	17	450	208	434	13	275	111	367	238	484	35
17	178	817	240	190	255	13	412	111	479	234	205	29
18	100	1,510	291	173	211	13	1,190	111	1,200	234	165	22
19	74	1,490	389	183	211	14	1,610	115	1,750	165	123	20
20	72	1,470	560	196	211	319	1,370	168	1,750	102	178	23
21	74	1,510	862	175	211	511	713	185	947	403	259	24
22	74	1,520	1,090	180	199	394	538	173	26	1,130	158	24
23	74	1,490	848	295	168	287	875	150	749	1,120	113	42
24	74	1,450	524	416	143	217	1,030	115	1,700	736	89	51
25	74	1,530	443	434	138	205	560	120	1,660	713	89	53
26	76	1,530	497	367	135	758	466	155	1,620	1,020	84	51
27	78	1,490	574	311	135	1,240	596	202	1,020	668	59	53
28	78	1,430	497	394	128	749	1,200	275	974	394	59	53
29	78	1,370	340	529	------	439	1,160	295	970	248	59	53
30	78	844	295	434	------	1,060	686	295	578	193	62	53
31	78	------	380	398	------	1,150	------	295	------	170	62	------
TOTAL	5,145	34,569	20,965	11,901	8,569	9,331	22,912	6,745	20,642	17,358	5,787	1,402
MEAN	166	1,152	676	384	306	301	764	218	688	560	187	46.7
MAX	632	1,580	1,510	1,260	1,040	1,240	1,610	538	1,750	1,400	929	71
MIN	72	17	240	173	128	13	275	111	26	33	59	20

CAL YR 1972 TOTAL 121,499 MEAN 332 MAX 1,770 MIN 14
WTR YR 1973 TOTAL 165,326 MEAN 453 MAX 1,750 MIN 13

03231000 Deer Creek at Williamsport, Ohio

LOCATION.--Lat 39°35'09", long 83°07'22", Pickaway County, on left bank at downstream side of bridge on U.S. Highway 22 at west edge of Williamsport, 2.0 mi (3.2 km) downstream from Dry Run, and 7.6 mi (12.2 km) upstream from Hay Run.

DRAINAGE AREA.--333 mi² (862 km²).

PERIOD OF RECORD.--August 1926 to December 1935, January 1938 to September 1956, annual maximum, water years 1959, 1961-62, July 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 718.66 ft (219.048 m) above mean sea level. Prior to Feb. 29, 1940, nonrecording gage, and Feb. 29, 1940, to Aug. 24, 1954, water-stage recorder, at same site at datum 3.00 ft (0.914 m) higher. Aug. 24, 1954 to Sept. 30, 1956, nonrecording gage at same site and datum. Oct. 1, 1958, to June 1962, crest-stage gage at site 120 ft (37 m) downstream at same datum.

AVERAGE DISCHARGE.--38 years (1926-35, 1938-56, 1962-73), 287 ft³/s (8.128 m³/s).

EXTREMES.--Current year: Maximum discharge, about 3,400 ft³/s (96.3 m³/s) June 17 or 18; minimum, 24 ft³/s (0.68 m³/s) Sept. 19.

Period of record: Maximum discharge, 39,600 ft³/s (1,120 m³/s) Jan. 22, 1959, gage height, 17.6 ft (5.36 m) (from floodmarks), from rating curve extended above 25,000 ft³/s (708 m³/s) on basis of contracted-opening measurement of peak flow; minimum discharge, 0.10 ft³/s (0.003 m³/s) Sept. 19, 1964.

REMARKS.--Records good. Flow regulated by Deer Creek Reservoir 9.0 mi (14.5 km) upstream beginning in 1968. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1083: 1929. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	464	593	756	422	166	1,110	666	360	560	253	92
2	437	1,310	530	695	796	143	874	589	290	510	238	89
3	382	1,190	520	488	1,140	145	586	482	251	1,200	182	83
4	214	1,370	516	1,370	940	146	776	462	186	1,500	150	84
5	215	1,450	523	1,500	579	182	922	380	510	1,600	146	80
6	214	1,400	712	730	506	233	783	256	846	1,700	145	80
7	207	1,480	888	439	474	304	582	251	826	1,600	124	79
8	198	1,480	1,360	410	432	295	803	264	644	1,500	91	71
9	105	894	1,470	380	390	289	1,270	319	394	1,200	89	63
10	73	452	1,460	330	337	292	874	367	267	630	92	63
11	71	1,150	1,480	280	301	295	1,110	354	254	620	534	63
12	161	1,090	1,570	260	233	250	716	259	256	74	646	60
13	658	1,190	1,470	240	250	53	980	192	270	178	373	49
14	385	1,770	1,080	230	292	47	1,030	181	503	218	1,150	45
15	333	670	870	263	464	56	506	142	673	280	1,280	47
16	242	210	730	271	537	86	341	136	586	337	768	47
17	187	674	450	243	380	292	486	140	1,160	328	313	46
18	138	1,550	300	233	307	174	1,060	134	1,580	322	255	32
19	71	1,540	457	250	295	130	1,760	138	1,990	260	176	27
20	69	1,610	733	265	292	292	1,630	211	2,210	162	255	26
21	68	1,560	1,020	243	289	600	926	238	1,480	1,240	373	31
22	68	1,560	1,240	283	277	485	652	223	150	1,570	233	33
23	69	1,500	1,040	397	243	376	1,270	181	100	1,440	160	83
24	69	1,470	681	488	198	313	1,410	151	1,900	1,080	124	75
25	68	1,510	534	502	184	295	818	126	2,000	1,290	119	70
26	67	1,540	586	464	186	812	613	273	1,900	1,320	116	69
27	67	1,490	688	415	186	1,310	918	276	1,800	1,020	90	68
28	69	1,430	614	509	178	935	1,420	373	1,000	593	85	66
29	68	1,390	446	667	------	586	1,380	380	1,300	418	84	66
30	68	1,000	373	516	------	1,140	922	390	740	304	90	66
31	67	------	464	481	------	1,320	------	390	------	253	115	------
TOTAL	5,473	37,394	25,398	14,598	11,108	12,042	28,528	8,924	26,426	25,307	8,849	1,853
MEAN	177	1,246	819	471	397	388	951	288	881	816	285	61.8
MAX	658	1,770	1,570	1,500	1,140	1,320	1,760	666	2,210	1,700	1,280	92
MIN	67	210	300	230	178	47	341	126	100	74	84	26

CAL YR 1972 TOTAL 137,781 MEAN 376 MAX 1,770 MIN 13
WTR YR 1973 TOTAL 205,900 MEAN 564 MAX 2,210 MIN 26

NOTE: No gage-height record June 17, 18, June 22 to July 12.

03231500 Scioto River at Chillicothe, Ohio

LOCATION.--Lat 39°20'29", long 82°58'16", Ross County, on right bank at north end of Chillicothe, 1,400 ft (427 m) downstream from Bridge Street Bridge, 7.4 mi (11.9 km) upstream from Paint Creek, and 15.4 mi (24.8 km) downstream from Deer Creek.

DRAINAGE AREA.--3,849 mi² (9,969 km²).

PERIOD OF RECORD.--December 1913 to September 1914 (gage heights and discharge measurements only), October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected in this vicinity since 1907 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 594.05 ft (181.066 m) above mean sea level. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft (396 m) upstream at different datum. Apr. 1, 1921, to Aug. 6, 1930, nonrecording gage, at site 1,400 ft (427 m) upstream at present datum. Aug. 7, 1930, to Sept. 30, 1969, water stage recorder 900 ft (274 m) upstream at same datum.

AVERAGE DISCHARGE.--53 years, 3,333 ft³/s (94.39 m³/s).

EXTREMES.--Current year: Maximum discharge, 26,900 ft³/s (762 m³/s) June 22, gage height, 13.43 ft (4.093 m); minimum, 591 ft³/s (16.7 m³/s) Sept. 22.

Period of record: Maximum discharge, 144,000 ft³/s (4,080 m³/s) Jan. 23, 1959, gage height, 32.50 ft (9.906 m), (from high-water mark in well); minimum, 160 ft³/s (4.53 m³/s) Jan. 1, 1931; minimum gage height, 0.81 ft (0.247 m) Sept. 27, 1944.

Flood of Mar. 26, 1913 reached a stage of 39.8 ft (12.13 m), discharge, 260,000 ft³/s (7,360 m³/s) (estimated by Franklin County Conservancy District).

REMARKS.--Records good. Flow regulated by 5 reservoirs 36 mi (58 km) to 91 mi (146 km) upstream from station (see p. 124). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1929(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,000	2,370	5,290	6,960	5,890	1,990	11,400	8,380	3,900	5,770	2,940	3,150
2	8,700	6,830	4,650	10,400	6,320	1,940	9,440	6,220	3,190	4,530	2,390	1,950
3	7,100	13,400	4,500	8,730	12,300	1,980	7,200	5,330	2,720	4,120	2,050	1,340
4	6,740	17,000	4,450	10,300	15,100	2,300	6,740	4,910	2,390	6,350	1,810	1,060
5	4,900	16,500	4,400	15,000	13,000	3,520	10,400	4,560	4,560	7,460	1,640	956
6	3,540	12,400	5,470	13,200	8,750	5,030	11,600	3,790	8,980	8,250	1,510	944
7	2,850	11,400	10,600	8,930	6,310	5,670	9,920	3,330	9,210	7,860	1,430	980
8	2,580	15,200	13,300	5,700	5,170	5,000	9,030	3,060	9,840	6,130	1,330	968
9	2,240	18,100	18,300	4,180	5,000	4,200	9,590	3,610	7,250	4,300	1,290	894
10	1,820	19,100	19,700	3,570	4,280	3,360	9,730	3,520	5,750	3,250	1,290	836
11	1,420	15,500	17,300	3,140	3,500	3,660	12,800	3,560	4,250	2,990	1,480	825
12	1,690	13,000	12,200	2,780	3,040	5,750	12,100	4,880	3,230	3,140	1,970	772
13	5,030	11,800	10,200	2,530	2,790	8,830	11,700	6,170	4,010	2,330	4,960	741
14	3,860	16,400	10,900	2,440	2,760	8,290	14,700	5,460	5,610	2,210	10,500	710
15	3,220	19,000	12,500	2,390	3,630	8,190	11,800	4,770	4,570	2,330	11,800	700
16	2,750	21,500	11,700	2,410	5,260	13,500	7,910	3,970	3,650	2,200	9,980	680
17	2,250	19,300	8,250	2,420	4,770	17,500	6,140	2,870	5,340	1,940	8,090	650
18	2,040	14,800	5,310	2,410	3,750	19,400	7,510	2,550	12,400	1,740	6,110	650
19	1,850	13,300	4,540	2,480	3,390	21,400	13,400	2,380	16,300	1,590	5,250	640
20	1,760	12,700	5,860	2,600	3,150	19,100	11,300	2,780	13,500	1,450	3,860	621
21	1,510	11,500	9,930	2,570	2,890	15,100	7,720	3,060	20,100	4,760	3,250	621
22	1,400	10,100	11,300	2,780	2,710	11,400	5,810	3,470	26,300	8,690	3,170	611
23	1,340	8,650	12,500	4,990	2,550	8,320	7,730	3,500	20,900	6,100	2,900	680
24	1,390	7,630	11,200	6,640	2,420	6,270	11,300	2,670	11,500	5,390	2,190	991
25	1,450	6,630	8,970	6,230	2,250	5,120	7,890	2,450	9,060	6,880	1,680	762
26	1,660	6,090	7,680	4,760	2,150	6,300	5,970	3,570	5,740	11,600	1,400	670
27	1,650	5,840	7,020	4,280	2,130	9,980	6,460	4,290	4,680	8,320	1,240	640
28	1,520	5,740	6,410	5,160	2,070	12,400	11,800	4,820	4,370	8,710	1,150	621
29	1,550	6,030	5,630	8,270	-------	8,860	14,500	4,380	5,630	6,990	1,060	631
30	1,490	6,200	4,900	10,300	-------	9,870	11,900	3,880	5,540	4,950	991	690
31	1,420	-------	4,640	8,250	-------	13,100	-------	4,030	-------	3,770	1,630	-------
TOTAL	92,720	364,010	279,600	176,800	137,330	267,330	295,490	126,220	244,470	156,100	102,291	26,974
MEAN	2,991	12,130	9,019	5,703	4,905	8,624	9,850	4,072	8,149	5,035	3,300	899
MAX	10,000	21,500	19,700	15,000	15,100	21,400	14,700	8,380	26,300	11,600	11,800	3,150
MIN	1,340	2,370	4,400	2,390	2,070	1,940	5,810	2,380	2,390	1,450	991	611

CAL YR 1972 TOTAL 1,961,806 MEAN 5,360 MAX 24,800 MIN 630
WTR YR 1973 TOTAL 2,269,335 MEAN 6,217 MAX 26,300 MIN 611

03232000 Paint Creek near Greenfield, Ohio

LOCATION.--Lat 39°22'45", long 83°22'32", Fayette County, on right bank at upstream side of bridge on State Highway 753, 0.6 mi (1.0 km) upstream from Stone Run, 2.0 mi (3.2 km) north of Greenfield, and 3.0 mi (4.8 km) downstream from Indian Creek.

DRAINAGE AREA.--249 mi² (645 km²).

PERIOD OF RECORD.--August 1926 to November 1935, October 1939 to September 1956; occasional low-flow measurements, water years 1962-66; annual maximums, water years 1963-66; October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 844.27 ft (257.333 m) above mean sea level. Prior to Feb. 14, 1940 nonrecording gage, Feb. 14, 1940 to June 3, 1955 water-stage recorder, June 4, 1955 to Sept. 30, 1956 nonrecording gage, at same site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--33 years (1926-35, 1939-56, 1966-73), 224 ft³/s (6.344 m³/s), 12.22 in/yr (310.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,420 ft³/s (68.5 m³/s) Dec. 8, gage height, 7.24 ft (2.207 m); minimum daily discharge, 20 ft³/s (0.57 m³/s) Sept. 24.

Period of record: Maximum discharge, 21,700 ft³/s (615 m³/s) May 24, 1969, gage height, 14.28 ft (4.353 m); no flow Sept. 10, 18, 27, 29, 30, Oct. 1, 4, 1953.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 743: 1926(M). WSP 758: 1926-33. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	371	326	532	284	103	849	540	289	412	213	125
2	350	1,060	335	485	628	103	648	436	213	286	170	89
3	233	1,460	387	429	800	111	489	475	173	692	135	67
4	168	1,390	408	1,010	628	115	768	377	158	1,590	115	56
5	149	828	387	998	454	149	899	289	335	1,100	98	51
6	239	552	596	656	260	175	692	238	268	700	87	46
7	269	728	768	419	215	190	520	210	387	401	79	42
8	205	1,460	1,350	260	190	168	756	215	363	274	73	39
9	153	1,490	1,860	220	170	147	768	210	238	213	67	41
10	119	1,020	1,680	200	160	139	894	178	183	183	81	43
11	90	804	1,110	180	150	137	816	180	148	163	513	38
12	73	648	752	160	140	133	724	145	384	129	524	35
13	66	564	784	150	150	123	724	127	496	111	286	32
14	64	1,970	812	140	190	125	636	117	401	101	415	32
15	93	2,190	684	130	384	168	485	109	271	247	1,390	29
16	76	1,500	556	133	412	572	387	103	380	292	908	27
17	68	867	302	125	251	1,110	371	105	620	210	377	25
18	59	620	450	125	220	1,170	612	96	608	141	253	25
19	54	524	335	137	200	935	1,330	94	676	111	190	26
20	49	756	640	137	183	720	1,300	145	652	109	150	23
21	41	712	903	123	163	548	849	139	1,450	975	127	22
22	38	564	840	160	143	412	592	117	1,070	1,550	111	22
23	40	450	692	275	141	329	1,650	107	648	993	92	21
24	40	374	556	335	133	275	1,510	101	366	820	82	20
25	39	335	454	269	117	272	926	117	412	1,080	77	62
26	39	323	412	220	115	720	676	503	412	1,150	70	52
27	37	302	394	257	113	792	1,210	373	331	752	63	40
28	37	290	350	317	107	636	1,560	419	890	496	56	32
29	37	323	299	447	------	548	1,070	298	917	342	52	24
30	36	332	278	394	------	1,010	708	265	572	250	52	28
31	36	------	347	299	------	1,070	------	412	------	208	226	------
TOTAL	3,433	24,807	20,047	9,722	7,101	13,205	25,419	7,240	14,311	16,081	7,132	1,214
MEAN	111	827	647	314	254	426	847	234	477	519	230	40.5
MAX	436	2,190	1,860	1,010	800	1,170	1,650	540	1,450	1,590	1,390	125
MIN	36	290	278	123	107	103	371	94	148	101	52	20
CFSM	.45	3.32	2.60	1.26	1.02	1.71	3.40	.94	1.92	2.08	.92	.16
IN.	.51	3.71	2.99	1.45	1.06	1.97	3.80	1.08	2.14	2.40	1.07	.19

CAL YR 1972 TOTAL 120,756.9 MEAN 330 MAX 2,690 MIN 3.7 CFSM 1.33 IN 18.04
WTR YR 1973 TOTAL 149,712.0 MEAN 410 MAX 2,190 MIN 20 CFSM 1.65 IN 22.37

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	1300	7.09	2,310	4-23	1500	7.12	2,300
12-8	1900	7.24	2,420				

03232300 Rattlesnake Creek near Centerfield, Ohio

LOCATION.--Lat 39°19'44", long 83°28'32", Highland County, on right bank 600 ft (183 m) upstream from county road bridge at Centerfield, 0.6 mi (1.0 km) upstream from Walnut Creek, 1.5 mi (2.4 km) downstream from Lees Creek, and 2.4 mi (3.9 km) southeast of East Monroe.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.32 ft (250.643 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 4,660 ft³/s (132 m³/s) Nov. 13, gage height, 10.05 ft (3.063 m); minimum, 4.2 ft³/s (0.12 m³/s) Sept. 22

Period of record: Maximum discharge, 5,680 ft³/s (161 m³/s) June 15, 1972, gage height, 11.85 ft (3.612 m); minimum, 1.8 ft³/s (0.051 m³/s) Aug. 22-24, 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	635	280	553	218	77	647	422	310	239	180	55
2	186	1,440	290	386	720	77	481	318	200	173	120	52
3	115	1,350	320	427	755	88	350	298	152	137	98	32
4	81	1,020	330	1,110	503	98	715	253	176	164	80	24
5	289	580	318	835	355	124	850	200	557	161	68	18
6	336	344	661	476	278	185	575	164	294	119	58	16
7	240	720	692	250	228	176	400	146	346	93	48	15
8	159	1,490	1,840	200	214	155	656	152	338	75	44	15
9	109	1,120	2,020	150	188	127	715	152	228	64	39	13
10	76	735	1,520	130	158	117	835	127	170	68	47	12
11	58	595	910	120	135	111	706	122	135	114	47	11
12	49	454	566	110	122	109	656	104	140	64	39	11
13	46	869	770	100	122	93	670	88	318	50	52	11
14	35	2,550	706	94	140	88	476	79	246	42	81	10
15	40	1,750	539	88	418	158	342	73	164	68	373	8.9
16	37	1,070	422	84	413	835	274	68	260	135	228	7.4
17	34	652	246	75	232	1,430	274	68	249	86	132	6.4
18	32	445	294	77	190	1,140	688	64	409	57	86	6.0
19	30	364	225	86	167	805	1,440	64	391	41	61	5.6
20	29	701	665	91	140	571	1,180	135	334	42	48	5.0
21	26	661	820	77	124	418	725	101	825	656	41	5.0
22	25	463	692	119	111	302	472	81	735	1,140	36	4.7
23	25	346	526	267	106	235	1,490	75	326	960	30	4.7
24	26	282	404	294	98	200	1,610	75	211	780	27	4.5
25	26	246	326	211	81	197	930	70	173	1,280	26	26
26	26	240	290	176	79	665	598	278	185	1,150	38	20
27	26	230	290	228	79	670	1,260	278	197	865	42	15
28	27	220	256	306	79	440	1,630	306	679	440	32	12
29	28	250	218	391	------	373	990	263	745	278	25	8.9
30	28	270	211	322	------	795	557	211	386	210	20	15
31	27	------	338	225	------	795	------	400	------	160	48	------
TOTAL	2,525	22,142	17,985	8,058	6,453	11,654	23,192	5,235	9,879	9,911	2,294	450.1
MEAN	81.5	738	580	260	230	376	773	169	329	320	74.0	15.0
MAX	336	2,550	2,020	1,110	755	1,430	1,630	422	825	1,280	373	55
MIN	25	220	211	75	79	77	274	64	135	41	20	4.5
CFSM	.39	3.53	2.78	1.24	1.10	1.80	3.70	.81	1.57	1.53	.35	.07
IN.	.45	3.94	3.20	1.43	1.15	2.07	4.13	.93	1.76	1.76	.41	.08

CAL YR 1972 TOTAL 107,328.2 MEAN 293 MAX 2,730 MIN 1.8 CFSM 1.40 IN 19.10
WTR YR 1973 TOTAL 119,778.1 MEAN 328 MAX 2,550 MIN 4.5 CFSM 1.57 IN 21.32

PEAK DISCHARGE (BASE, 1,300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1815	7.15	2,400	1-4	0045	5.83	1,550	4-23	1545	7.32	2,520
11-8	0200	6.55	1,980	3-16	1900	7.29	2,500	4-27	2045	7.29	2,500
11-13	2345	10.05	4,660	4-19	1515	6.33	1,850	7-25	0630	5.87	1,570
12-8	1815	9.30	4,060								

03232470 Paint Creek below Paint Creek Dam, near Bainbridge, Ohio

LOCATION.--Lat 39°15'08", long 83°20'58", Highland County, on right bank, 400 ft (122 m) downstream from Paint Creek Dam site, 700 ft (213 m) upstream from Cliff Creek, and 4.5 mi (7.2 km) northwest of Bainbridge.

DRAINAGE AREA.--570 mi^2 (1,476 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-67, annual maximum, water years 1963-67 (published as "at damsite near Bainbridge"). October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level (levels by Corps of Engineers). Prior to May 3, 1968, water-stage recorder and crest-stage gage at partial-record site 1,000 ft (305 m) downstream at datum 42.96 ft (13.094 m) higher.

AVERAGE DISCHARGE.--6 years, 560 ft^3/s (15.86 m^3/s), 13.35 in/yr (339.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,550 ft^3/s (185 m^3/s) Nov. 14, gage height, 54.60 ft (16.642 m); minimum daily, 30 ft^3/s (0.85 m^3/s) Sept. 20.

Period of record: Maximum discharge, about 45,000 ft^3/s (1,270 m^3/s) Mar. 10, 1964, gage height, 27.3 ft (8.32 m), site and datum then in use; minimum observed, 1.1 ft^3/s (0.031 m^3/s) Sept. 17, 1964.

REMARKS.--Records fair. Peak flow affected by temporary storage behind Paint Creek Dam, under construction, subsequent to January 1971. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812	1.150	770	1.150	668	229	1.820	1.210	722	740	494	180
2	710	2.220	788	1.030	1.470	226	1.350	950	488	666	426	160
3	494	3.300	848	848	1.880	243	1.040	956	350	618	351	130
4	355	2.930	878	2.340	1.500	270	1.770	830	335	1.360	290	116
5	482	1.860	872	2.090	1.070	335	2.220	680	1.020	1.390	248	103
6	638	1.470	1.570	1.380	872	428	1.590	548	716	850	214	98
7	656	1.390	1.650	902	752	452	1.140	482	710	634	204	88
8	500	3.710	2.460	590	680	410	1.850	482	764	470	190	84
9	365	3.210	5.290	400	520	340	1.850	512	524	396	174	80
10	270	2.330	4.290	330	430	306	2.170	416	360	372	180	72
11	215	1.830	3.090	290	360	298	1.890	422	278	358	466	67
12	170	1.410	1.670	260	310	298	1.630	345	404	296	578	63
13	145	1.350	1.830	230	330	290	1.730	294	956	254	446	53
14	130	5.750	1.730	250	380	282	1.350	258	642	228	502	51
15	145	4.920	1.460	260	962	452	1.040	233	446	316	1.220	48
16	139	3.970	1.250	280	1.040	1.050	854	219	536	442	1.300	44
17	121	2.190	728	278	692	3.250	800	233	848	393	544	40
18	107	1.270	818	278	566	2.850	1.150	226	884	247	438	35
19	89	1.080	758	314	572	1.740	2.520	282	1.040	235	347	34
20	78	1.730	1.450	314	458	1.590	3.130	566	818	220	287	30
21	64	1.590	1.900	274	392	1.170	2.110	392	1.480	1.110	248	32
22	53	1.230	1.760	360	350	902	1.260	326	1.700	2.220	220	32
23	55	987	1.410	668	318	740	2.450	270	1.620	1.980	208	39
24	55	836	1.140	776	306	602	4.060	250	682	1.350	164	59
25	53	752	962	644	258	572	2.960	236	602	2.050	158	109
26	52	746	878	536	250	1.420	1.720	764	670	2.200	140	93
27	50	710	872	602	247	1.620	2.220	872	570	1.630	130	66
28	55	686	788	734	240	1.260	4.000	1.040	1.100	962	120	54
29	55	746	692	968	------	1.010	3.080	788	1.660	670	106	46
30	50	764	638	890	------	1.960	1.680	656	1.060	530	93	48
31	50	------	788	686	------	2.080	------	794	------	450	120	------
TOTAL	7.213	58.117	46.028	20.952	17.873	28.665	58.434	16.532	24.035	25.647	10.656	2.154
MEAN	233	1.937	1.485	676	638	925	1.948	533	801	829	344	71.8
MAX	812	5.750	5.290	2.340	1.880	3.250	4.060	1.210	1.700	2.220	1.300	180
MIN	50	686	638	230	240	226	800	219	278	220	93	30

CAL YR 1972 TOTAL 291.539.1 MEAN 797 MAX 5.800 MIN 7.9
WTR YR 1973 TOTAL 316.346.0 MEAN 867 MAX 5.750 MIN 30

03232500 Rocky Fork near Barretts Mills, Ohio

LOCATION.--Lat 39°13'06", long 83°23'08", Highland County, on left bank at downstream side of highway bridge, 1.1 mi (1.8 km) north of Barretts Mills, 2 mi (3 km) east of Rainsboro, 2.8 mi (4.5 km) upstream from mouth, and 6 mi (10 km) downstream from Rocky Fork Lake.

DRAINAGE AREA.--140 mi^2 (363 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 770.8 ft (234.94 m) above mean sea level, levels by Corps of Engineers. Prior to Feb. 15, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 150 ft^3/s (4.248 m^3/s).

EXTREMES.--Current year: Maximum discharge, 3,070 ft^3/s (86.9 m^3/s) Nov. 14, Dec. 8, gage height, 8.72 ft (2.658 m); minimum, 11 ft^3/s (0.31 m^3/s) Oct. 20, 21.

Period of record: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Mar. 10, 1964 from rating curve extended above 8,800 ft^3/s (249 m^3/s) on basis of velocity-area studies; maximum gage height, 15.56 ft (4.743 m) Mar. 6, 1945; minimum discharge, 0.40 ft^3/s (0.011 m^3/s) Oct. 7, 11, 1964; minimum daily, 0.90 ft^3/s (0.025 m^3/s) Sept. 10, 1966.

REMARKS.--Records fair. Some diurnal fluctuation caused by mill 6 mi (10 km) upstream from station. Flow regulated by Rocky Fork Lake 6 mi (10 km) upstream, since 1952, capacity, 34,100 acre-ft (42.0 hm^3). Water-qualtiy records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 190[illegible]: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	475	212	237	217	167	395	395	178	140	192	36
2	169	697	212	231	326	67	344	328	146	123	151	32
3	135	738	212	276	273	68	302	311	129	106	111	30
4	125	482	237	485	255	67	844	268	127	442	87	26
5	148	328	263	389	265	71	712	217	263	383	73	25
6	140	237	492	314	296	67	509	188	289	248	62	25
7	123	536	478	258	293	66	437	169	251	171	55	25
8	99	1,100	1,520	222	302	63	925	169	192	123	50	23
9	74	653	2,090	214	293	61	777	167	155	100	45	25
10	56	455	1,080	226	289	60	774	157	127	97	44	24
11	49	452	653	248	286	58	593	155	117	127	42	22
12	46	348	499	260	185	58	500	146	110	99	39	20
13	39	681	550	259	78	57	439	135	111	83	79	20
14	36	2,370	455	260	110	57	354	111	106	74	512	20
15	32	1,160	425	261	124	57	292	64	95	70	405	20
16	27	653	391	222	105	100	258	67	111	62	243	20
17	27	442	293	126	147	353	255	73	164	52	153	20
18	20	328	255	288	135	476	295	74	137	46	106	21
19	18	303	238	292	137	447	523	90	117	40	82	20
20	13	550	428	287	138	369	639	368	110	42	73	20
21	11	411	437	285	161	304	481	281	222	263	62	23
22	12	334	395	256	211	251	374	204	266	322	46	35
23	15	271	334	155	208	210	697	167	195	232	39	22
24	20	240	289	141	204	183	956	142	140	227	37	24
25	19	227	259	138	203	177	721	125	117	713	37	21
26	17	204	250	139	205	354	581	157	104	414	35	20
27	17	176	237	152	204	310	902	219	99	308	35	21
28	24	185	213	150	203	254	1,190	362	157	207	33	46
29	30	195	200	178	------	284	709	279	146	135	31	27
30	27	188	193	207	------	459	502	217	153	100	30	21
31	27	------	227	213	------	415	------	212	------	104	36	------
TOTAL	1,790	15,419	14,017	7,369	5,853	5,990	17,280	6,017	4,634	5,653	3,025	734
MEAN	57.7	514	452	238	209	193	576	194	154	182	97.6	24.5
MAX	195	2,370	2,090	485	326	476	1,190	395	289	713	512	46
MIN	11	176	193	126	78	57	255	64	95	40	30	20

CAL YR 1972 TOTAL 83,740.0 MEAN 229 MAX 2,370 MIN 4.4
WTR YR 1973 TOTAL 87,781.0 MEAN 240 MAX 2,370 MIN 11

03234000 Paint Creek near Bourneville, Ohio

LOCATION.--Lat 39°15'49", long 83°10'01", Ross County, on upstream side of left abutment of highway bridge, 0.2 mi (0.3 km) downstream from Sulphur Lick, 1.2 mi (1.9 km) southwest of Bourveville, and 1.2 mi (1.9 km) upstream from Upper Twin Creek.

DRAINAGE AREA.--807 mi² (2,090 km²).

PERIOD OF RECORD.--October 1921 to January 1937, January 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Bainbridge" October 1921 to September 1923 and as "near Bainbridge" January 1938 to May 1939.

GAGE.--Water-stage recorder. Datum of gage is 665.56 ft (202.863 m) above mean sea level. See WSP 1725 for history of changes prior to May 3, 1939.

AVERAGE DISCHARGE.--50 years (1921-36, 1938-73), 786 ft³/s (22.26 m³/s), 13.23 in/yr (336.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,820 ft³/s (278 m³/s) Dec. 9, gage height, 10.71 ft (3.264 m); minimum, 66 ft³/s (1.87 m³/s) Sept. 21, 22.

Period of record: Maximum discharge, 56,900 ft³/s (1,610 m³/s) Mar. 10, 1964, gage height, 20.50 ft (6.248 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of contracted-opening measurement at gage height 20.08 ft (6.120 m); minimum, 4.8 ft³/s (0.14 m³/s) Sept. 16, 17, 1964.

REMARKS.--Records good. Flow slightly regulated by Rocky Fork Lake 23 mi (37 km) upstream since 1952, capacity, 34,100 acre-ft (42.0 hm³), and by temporary storage behind Paint Creek Dam (under construction), subsequent to January 1971. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ohio 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	859	894	1,120	1,570	976	569	2,700	1,710	905	1,080	605	272
2	716	2,740	1,130	1,530	1,850	420	2,150	1,350	641	905	650	229
3	534	4,110	1,170	1,280	2,410	392	1,730	1,260	504	700	583	192
4	418	3,510	1,250	2,930	2,040	420	2,890	1,170	424	815	480	162
5	429	2,400	1,290	2,910	1,590	452	3,580	970	596	1,220	408	143
6	574	1,430	2,190	2,230	1,350	548	2,660	815	865	1,200	353	135
7	617	1,510	2,550	1,520	1,200	574	2,010	718	810	1,040	304	127
8	504	5,090	4,160	1,110	1,150	556	3,540	673	825	655	278	119
9	408	4,120	8,470	830	1,080	492	3,190	718	632	556	263	115
10	331	3,050	5,880	760	946	448	3,570	664	472	480	222	113
11	278	2,420	4,390	660	860	424	3,080	605	372	420	376	111
12	240	1,820	2,770	580	755	420	2,590	560	360	468	565	104
13	214	1,620	2,720	540	544	404	2,700	460	815	336	544	98
14	196	8,410	2,590	510	592	364	2,270	357	845	290	940	95
15	186	6,530	2,270	480	1,290	432	1,800	281	565	287	1,510	89
16	195	4,960	2,070	490	1,370	722	1,500	238	492	339	1,970	87
17	179	3,290	1,340	508	1,040	3,820	1,350	235	795	488	958	82
18	166	1,980	1,210	641	830	3,670	1,500	238	845	368	641	80
19	150	1,620	1,220	731	760	3,160	3,090	235	880	260	488	77
20	138	2,650	2,010	745	700	2,350	4,160	614	780	232	392	73
21	124	2,410	2,690	700	677	1,830	3,290	700	1,130	905	329	69
22	114	1,920	2,550	790	709	1,430	2,210	468	1,590	2,580	275	73
23	110	1,550	2,140	910	682	1,160	3,340	380	2,190	2,660	224	87
24	112	1,300	1,760	1,050	659	976	5,640	322	1,060	1,810	222	73
25	114	1,160	1,480	940	619	915	4,370	318	785	2,740	206	102
26	112	1,120	1,320	805	605	1,970	3,020	343	760	2,930	187	111
27	109	1,070	1,320	830	601	2,260	3,650	524	709	2,420	187	98
28	111	1,020	1,200	994	583	1,880	6,000	958	755	1,560	175	91
29	120	1,090	1,050	1,250	------	1,500	4,260	970	1,250	1,040	160	95
30	120	1,110	970	1,310	------	2,710	2,570	750	1,480	760	147	82
31	116	------	1,040	1,080	------	2,860	------	727	------	610	175	------
TOTAL	8,594	77,904	69,320	33,214	28,468	40,128	90,410	20,331	25,132	32,174	14,817	3,384
MEAN	277	2,597	2,236	1,071	1,017	1,294	3,014	656	838	1,038	478	113
MAX	859	8,410	8,470	2,930	2,410	3,820	6,000	1,710	2,190	2,930	1,970	272
MIN	109	894	970	480	544	364	1,350	235	360	232	147	69
CFSM	.34	3.22	2.77	1.33	1.26	1.60	3.73	.81	1.04	1.29	.59	.14
IN.	.40	3.59	3.20	1.53	1.31	1.85	4.17	.94	1.16	1.48	.68	.16

CAL YR 1972 TOTAL 424,111 MEAN 1,159 MAX 8,470 MIN 40 CFSM 1.44 IN 19.55
WTR YR 1973 TOTAL 443,876 MEAN 1,216 MAX 8,470 MIN 69 CFSM 1.51 IN 20.46

PEAK DISCHARGE (BASE, 9,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1200	10.59	9,560	12-9	0100	10.71	9,820

03234500 Scioto River at Higby, Ohio

LOCATION.--Lat 39°12'44", long 82°51'50", in sec. 6, T.7 N., R.20 W., Ross County, on left bank at downstream side of highway bridge, 0.8 mi (1.3 km) downstream from Walnut Creek, 1.2 mi (1.9 km) north of Higby, 3 mi (5 km) west northwest of Richmondale, and 5.0 mi (8.0 km) upstream from Salt Creek.

DRAINAGE AREA.--5,131 mi² (13,289 km²).

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 567.28 ft (172.907 m) above mean sea level. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 4,439 ft³/s (125.7 m³/s).

EXTREMES.--Current year: Maximum discharge, 31,300 ft³/s (886 m³/s) Dec. 9, gage height, 16.21 ft (4.941 m); minimum, 810 ft³/s (22.9 m³/s) Sept. 22.

Period of record: Maximum discharge, 177,000 ft³/s (5,010 m³/s) Jan. 23, 1937, from rating curve extended above 112,000 ft³/s (3,170 m³/s); maximum gage height, 26.4 ft (8.05 m) Jan. 23, 1937, from floodmarks, and Jan. 23, 1959; minimum discharge, 244 ft³/s (6.91 m³/s) Oct. 23, 1930.

A stage of 31.6 ft (9.63 m) occurred Mar. 26, 1913, and has not been exceeded since.

REMARKS.--Records good. Flow slightly regulated by 5 reservoirs 50 mi (80 km) to 105 mi (169 km) upstream from station (see p. 124), and since 1952 by Rocky Fork Lake 51 mi (82 km) upstream, capacity, 34,100 acre-ft (42.0 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 893: 1937(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,200	2,630	7,220	8,460	8,000	2,910	15,600	12,300	5,830	7,500	3,900	3,580
2	10,500	9,720	6,410	12,300	8,910	2,780	13,000	9,530	4,610	6,200	3,360	2,680
3	8,440	17,000	6,170	11,300	14,800	2,720	10,500	8,440	3,890	8,610	2,820	2,000
4	7,940	20,300	6,170	14,100	17,500	2,970	11,800	7,790	3,440	10,000	2,440	1,590
5	5,970	19,900	6,130	18,400	15,900	3,970	16,200	6,850	5,790	10,700	2,180	1,420
6	4,580	14,900	8,130	16,900	11,700	5,670	15,500	5,710	10,600	10,400	1,980	1,340
7	3,810	13,600	13,600	12,200	8,840	6,680	13,500	4,920	10,800	9,720	1,860	1,370
8	3,500	20,700	18,000	8,180	7,320	6,130	14,900	4,500	11,600	7,810	1,740	1,370
9	3,090	22,400	30,300	5,890	6,900	5,210	14,900	5,210	9,400	5,450	1,600	1,290
10	2,640	22,700	27,400	4,960	5,990	4,220	15,500	4,970	7,240	6,170	1,560	1,230
11	2,090	19,400	24,200	4,380	4,930	4,160	16,800	4,770	5,420	3,660	1,880	1,230
12	1,880	15,900	17,400	3,960	4,270	5,890	16,300	5,640	4,150	3,470	2,960	1,140
13	5,070	14,300	14,600	3,650	3,790	9,200	15,300	7,460	6,760	3,010	4,570	1,050
14	4,490	24,900	14,500	3,540	3,740	9,410	17,400	6,700	7,540	2,770	10,700	1,020
15	3,680	26,500	15,800	3,500	5,620	8,590	15,300	5,750	6,130	2,960	14,200	972
16	3,240	26,200	15,400	3,470	7,490	13,300	10,900	4,980	4,920	2,870	12,500	967
17	2,790	24,300	11,600	3,360	6,740	21,300	8,840	3,730	4,740	2,660	10,200	906
18	2,520	18,000	7,870	3,330	5,190	23,300	8,960	3,370	12,600	2,360	7,400	904
19	2,290	15,700	6,700	3,550	4,720	24,500	15,800	3,140	17,100	2,070	5,110	888
20	2,170	16,800	8,600	3,690	4,340	22,700	17,500	5,360	15,200	1,860	4,590	854
21	1,890	15,300	13,500	3,600	3,980	18,300	13,200	4,670	19,600	6,890	3,860	834
22	1,710	13,300	14,700	3,980	3,750	14,200	9,860	4,420	26,600	12,400	3,560	828
23	1,630	11,500	15,400	6,340	3,600	10,900	11,700	4,550	25,100	10,100	3,400	864
24	1,620	10,000	14,100	8,260	3,440	8,460	21,500	3,690	14,300	8,200	2,820	1,230
25	1,710	8,810	11,700	8,190	3,240	6,820	15,700	3,380	11,000	8,730	2,320	1,120
26	1,860	8,070	10,200	6,300	3,090	9,670	11,900	4,920	7,580	15,000	2,000	995
27	1,980	7,700	9,480	5,680	3,070	12,500	14,000	6,350	5,920	12,100	1,800	921
28	1,840	7,480	8,740	6,700	3,010	15,000	22,300	7,750	5,660	10,900	1,680	890
29	1,820	7,760	7,730	9,570	------	12,000	20,700	6,630	8,140	9,210	1,560	904
30	1,790	8,100	6,720	12,300	------	13,000	16,800	5,590	7,880	6,440	1,450	918
31	1,720	------	6,220	10,500	------	16,500	------	5,740	------	6,820	1,580	------
TOTAL	111,460	463,870	384,690	230,530	183,870	322,950	442,160	178,810	291,540	211,320	124,700	37,337
MEAN	3,595	15,460	12,410	7,435	6,567	10,420	14,740	5,768	9,718	6,817	4,023	1,245
MAX	11,200	26,500	30,300	18,400	17,500	24,500	22,300	12,300	26,600	15,000	14,200	3,580
MIN	1,620	2,630	6,130	3,330	3,010	2,720	8,840	3,140	3,440	1,860	1,450	828

CAL YR 1972 TOTAL 2,650,129 MEAN 7,241 MAX 30,300 MIN 668
WTR YR 1973 TOTAL 2,983,237 MEAN 8,173 MAX 30,300 MIN 828

PEAK DISCHARGE (BASE, 24,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	2100	15.42	28,300	3-19	1600	13.89	24,800
12-9	1300	16.21	31,300	6-22-	1800	15.33	28,000

03235500 Tar Hollow Creek at Tar Hollow State Park, Ohio

LOCATION.--Lat 39°23'22", long 82°45'03", in NE 1/4 sec.36, T.10 N., R.20 W., Ross County, in Tar Hollow State Park, on left bank 2.0 mi (3.2 km) upstream from mouth and 5.2 mi (8.4 km) south of Adelphi.

DRAINAGE AREA.--1.35 mi² (3.50 km²).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder and V-notch weir. Datum of gage is 793.63 ft (241.898 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 1.23 ft³/s (0.0348 m³/s), 12.37 in/yr (314.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 94 ft³/s (2.66 m³/s) Dec. 8, gage height, 3.19 ft (0.972 m); no flow many days.

Period of record: Maximum discharge, 957 ft³/s (27.1 m³/s) May 24, 1968, gage height, 5.66 ft (1.725 m) (in gage well), 5.84 ft (1.780 m) (from floodmark), from rating curve extended above 92 ft³/s (2.61 m³/s) on basis of slope-area measurements at gage height 5.21 ft (1.588 m) and at peak flow; no flow many days each year.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	7.0	1.5	1.4	2.5	.83	2.8	3.0	1.5	.14	.12	
2	.65	4.9	1.5	1.2	8.0	.83	2.5	2.8	1.2	.12	.18	
3	.40	3.4	1.5	2.1	5.9	1.0	2.1	3.0	.83	.18	.12	
4	.40	2.1	1.7	6.3	3.9	1.0	16	3.0	.69	.44	.06	
5	.48	1.4	1.9	3.6	3.0	1.2	8.0	2.5	.80	.44	.03	
6	.40	1.0	7.4	2.5	2.5	1.0	4.5	2.1	3.1	.49	.03	
7	.32	7.8	5.2	1.9	2.1	1.2	3.9	1.9	1.4	.26	.03	
8	.32	8.4	30	1.4	2.0	1.0	10	1.7	.90	.19	.01	
9	.24	3.3	14	1.0	1.7	1.0	10	1.7	.60	.14	.01	
10	.24	2.3	5.9	.86	1.5	.93	6.9	1.6	.30	.19	.01	
11	.18	2.3	3.6	.76	1.2	.43	5.2	1.2	.21	.12	0	
12	.24	1.9	3.0	.49	1.0	1.0	4.2	.83	.16	.12	0	
13	.24	4.5	3.9	.40	1.0	1.0	3.9	.69	.12	.06	0	
14	.24	16	3.3	.44	1.7	1.7	3.3	.58	.17	.03	.69	
15	.12	5.9	3.6	.58	3.6	1.4	2.8	.48	.18	.03	.32	
16	.06	3.9	3.6	.58	2.5	3.0	2.3	.48	.19	.06	.24	
17	.06	2.8	2.5	.58	1.5	7.0	2.1	.48	.24	.03	.12	
18	.06	2.1	2.1	.69	1.3	5.2	2.1	.40	.24	.03	.06	
19	.12	2.7	2.1	.83	1.2	4.9	1.9	.48	.18	.03	.06	
20	.12	11	6.6	.69	1.3	3.9	1.9	6.6	.18	.06	.12	
21	.12	5.2	5.2	.58	1.3	3.0	1.7	3.0	.12	.54	.06	
22	.06	3.3	3.9	2.3	1.3	2.5	1.7	1.9	.18	.59	.03	
23	.03	2.3	3.3	3.0	1.2	2.1	15	1.6	.12	.44	.03	
24	.06	1.9	2.3	2.5	1.1	1.7	9.4	1.2	.06	.40	.01	
25	.06	1.7	1.9	2.1	1.0	2.1	7.3	1.0	.12	.44	.01	
26	.06	1.5	1.9	1.7	1.0	7.7	6.3	5.2	.12	.54	.03	
27	.06	1.4	1.7	2.8	1.0	4.2	23	2.8	.06	.40	.01	
28	.12	1.4	1.7	3.3	.83	3.3	14	4.2	.24	.32	0	
29	.18	1.4	1.4	3.0	------	3.0	5.6	2.8	.48	.24	0	
30	.18	1.5	1.4	2.5	------	3.6	3.9	1.9	.32	.12	0	
31	.24	------	1.4	2.1	------	3.3	------	1.9	------	.12	0	------
TOTAL	7.56	116.3	131.0	54.16	58.13	76.32	186.3	62.62	14.92	7.71	2.39	0
MEAN	.24	3.88	4.23	1.75	2.08	2.46	6.21	2.02	.50	.25	.077	0
MAX	1.5	16	30	6.3	8.0	7.7	23	6.6	3.1	.59	.69	0
MIN	.03	1.0	1.4	.40	.83	.83	1.7	.40	.06	.03	0	0
CFSM	.18	2.87	3.13	1.30	1.54	1.82	4.60	1.50	.37	.19	.06	0
IN.	.21	3.20	3.61	1.49	1.60	2.10	5.13	1.73	.41	.21	.07	0

CAL YR 1972 TOTAL 704.12 MEAN 1.92 MAX 30 MIN 0 CFSM 1.42 IN 19.40
WTR YR 1973 TOTAL 717.41 MEAN 1.97 MAX 30 MIN 0 CFSM 1.46 IN 19.77

Peak Discharge (Base, 50 FT³/S).--Dec. 8 (1800) 94 FT³/S (3.19 ft).

Reservoirs in Scioto River basin

03220500 O'SHAUGHNESSY RESERVOIR.--Lat 40°09'14", long 83°07'33", Delaware County, in gate house of dam on Scioto River, 4.0 mi (6.4 km) north of Dublin. Drainage area, 979 mi^2 (2,536 km^2). Period of record, October 1924 to current year. Water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is at mean sea level (levels by city of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 19,550 acre-ft (24.1 hm^3) Mar. 17, elevation, 850.41 ft (259.205 m); minimum, 16,650 acre-ft (20.5 hm^3) Sept. 22, elevation, 847.55 ft (258.333 m). Extremes for period of record: Maximum contents, 24,240 acre-ft (29.9 hm^3) Jan.22, 1959, elevation, 854.40 ft (260.421 m); minimum, 43 acre-ft (53,000 m^3) Feb. 11, 1945, elevation, 791.97 ft (241.392 m).

Reservoir is formed by concrete dam; dam completed and storage began in 1924. Usable capacity, 14,500 acre-ft (5.55 hm^3), between elevations, 789.5 ft (240.64 m) (sill of outlet gate), and 845 ft (258 m) (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft (3.06 hm^3), between elevations 845 ft (258 m) (crest of spillway), and 847.9 ft (258.44 m) (crest of flashboards). Dead storage below elevation 789.5 ft (240.64 m), 55 acre-ft (67,800 m^3). Figures given herein represent usable contents. Water used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.

03221500 GRIGGS RESERVOIR.--Lat 40°00'54", long 83°05'38", Franklin County, on left abutment of dam on Scioto River, 6.2 mi (10.0 km) northwest of State Capitol building in Columbus, and 6.5 mi (10.5 km) upstream from Olentangy River. Drainage area, 1,044 mi^2 (2,704 km^2). Period of record, January 1921 to current year. Water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by city of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft (207.380 m) above mean sea level, adjustment of 1912 (levels by city of Columbus); gage readings have been reduced to elevations above mean sea level. Prior to Oct. 4, 1940 nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 5,710 acre-ft (7.04 hm^3) June 20, elevation, 759.12 ft (231.380 m); minimum, 4,330 acre-ft (5.34 hm^3) Sept. 29, elevation, 755.27 ft (230.206 m). Extremes for period of record: Maximum contents, 7,490 acre-ft (9.24 hm^3) Jan. 22, 1959, elevation, 763.91 ft (232.840 m); minimum, 38 acre-ft (46,900 m^3) Jan. 24, 1945, elevation, 735.78 ft (224.266 m).

Reservoir formed by concrete dam; dam completed and storage began in 1905. Usable capacity, 3,700 acre-ft (4.56 hm^3) between elevations, 735.4 ft (224.15 m) (lowest outlets), and 753.4 ft (229.64 m) (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft (925,000 m^3), between elevations, 753.4 ft (229.64 m) (crest of spillway) and 755.6 ft (230.31 m) (crest of flashboards). Dead storage below elevation, 735.4 ft (224.15 m), 239 acre-ft (295,000 m^3). Figures given herein represent usable contents. Water is used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.

03225000 DELAWARE LAKE.--Lat 40°21'31", long 83°04'10", in T.5 N., R.19 W., Delaware County, in gate house of dam on Olentangy River, 4.0 mi (6.4 km) north of Delaware. Drainage area, 386 mi^2 (1000 km^2). Period of record, March 1951 to current year. Prior to October 1971 published as Delaware Reservoir. Water-stage recorder. Datum of gage is at mean sea level, Sandy Hook datum (levels by Corps of Engineers). Extremes for current year: Maximum contents, 31,530 acre-ft (38.9 hm^3) Nov. 4, elevation, 925.54 ft (282.105 m); minimum, 7,710 acre-ft (9.51 hm^3) Dec. 17, elevation, 909.23 ft (277.133 m). Extremes for period of record: Maximum contents, 113,000 acre-ft (139 hm^3) Jan. 25, 1959, elevation, 944.75 ft (287.960 m); minimum, 2,070 acre-ft (2.55 hm^3) Feb. 13, 1970, elevation, 899.43 ft (274.146 m).

Lake is formed by earthfill dam with concrete spillway; storage began Mar. 20, 1951. Usable capacity 24,500 acre-ft (30.2 hm^3) between elevation, 884.0 ft (269.44 m) (lowest outlet) and 922.0 ft (281.03 m) (crest of spillway). Additional flood-control storage above elevation 922.0 ft (281.03 m) by taintor gates on spillway, 107,500 acre-ft (133 hm^3). Normal conservation pool storage 8,400 acre-ft (10.4 hm^3), elevation, 910.0 ft (277.37 m) winter, and 14,000 acre-ft (17.3 hm^3), elevation, 915.0 ft (278.89 m) summer. No dead storage. Figures given herein represent usable contents. Lake is used primarily for flood control although the conservation pool is operated to augment low flow for water supply, pollution abatement, and for recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceways through dam, but above spillway level, taintor gates on spillway can be used. Water-stage recorder graph and capacity curve furnished by Corps of Engineers.

03228400 HOOVER RESERVOIR.--Lat 40°06'30", long 82°52'59", in T.2 N., R.17 W., Franklin County, in gate house of dam on Big Walnut Creek, 0.5 mi (0.8 km) northeast of Central College, and 12 mi (19 km) northeast of Columbus. Drainage area, 190 mi^2 (492 km^2). Period of record, March 1955 to current year. Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 10, 1956, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 83,220 acre-ft (103 hm^3) June 20, elevation, 897.25 ft (273.482 m); minimum, 58,650 acre-ft (72.3 hm^3) Jan. 21, elevation, 889.45 ft (271.104 m). Extremes for period of record: Maximum contents, 83,220 acre-ft (103 hm^3) June 20, 1973, elevation, 897.25 ft (273.482 m); minimum, 19,010 acre-ft (23.4 hm^3) Mar. 1, 1964, elevation, 868.58 ft (264.743 m).

Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage began in March 1955. Usable capacity, 60,130 acre-ft (74.1 hm^3) between elevations 830.0 ft (252.98 m) (lowest outlet), and 890.0 ft (271.27 m) (crest of spillway). Additional flood-control storage above elevation 890.0 ft (271.27 m) by bascule gates installed in May 1970, 25,750 acre-ft (31.7 hm^3). Dead storage below elevation 830.0 ft (252.98 m), 214 acre-ft (264,000 m^3). Figures given herein represent usable contents. Reservoir is used for municipal supply of city of Columbus and for recreational purposes. Outflow is controlled mostly by operation of valves in tunnel through dam, but above spillway level bascule gates can be used. Capacity table computed from data furnished by city of Columbus.

03230890 DEER CREEK LAKE.--Lat 39°37'20", long 83°12'58", Pickaway County, in outlet tower of dam on Deer Creek, 1,000 ft (305 m) upstream from Crownover Mill Road, and 2.8 mi (4.5 km) east of Pancoastburg. Drainage area, 277 mi^2 (717 km^2). Period of record, April 1968 to current year. Prior to October 1971 published as Deer Creek Reservoir. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 31,730 acre-ft (39.1 hm^3) Nov. 17, elevation, 817.48 ft (249.168 m); minimum, 6,230 acre-ft (7.68 hm^3) Dec. 17, elevation, 795.73 ft (242.538 m). Extremes for period of record: Maximum contents, 71,830 acre-ft (88.6 hm^3) May 31, 1968, elevation, 835.25 ft (254.584 m); minimum, 1,140 acre-ft (1.41 hm^3) Jan. 8, 1970, elevation, 784.75 ft (239.192 m).

Lake formed by earthfill dam with concrete spillway; dam completed in 1968 and storage began April 1, 1968. Usable capacity 26,440 acre-ft (32.6 hm^3) (corrected) between elevation 772.0 ft (235.31 m) (lowest outlet) and 814.0 ft (248.11 m) (corrected) crest of spillway. Additional flood control storage above 814.0 ft (248.11 m) by taintor gates on spillway 76,100 acre-ft (93.8 hm^3). Normal conservation pool storage 6,420 acre-ft (7.92 hm^3), elevation, 796.0 ft (242.62 m) winter, and 21,030 acre-ft (25.9 hm^3), elevation, 810.0 ft (246.89 m) summer. Dead storage 2 acre-ft (2,470 m^3) (corrected) below 772.0 ft (235.31 m). Figures given herein represent usable contents. Lake is used primarily for flood control although the conservation pool is operated to augment low flow for water supply, pollution abatement and for recreation and wildlife conservation purposes. Outflow is controlled mostly by operation of gates in sluiceways through dam, but above spillway level, taintor gates on spillway can be used. Gage-height chart and capacity table furnished by Corps of Engineers.

Reservoirs in Scioto River basin

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03220500 O'Shaughnessy Reservoir			03221500 Griggs Reservoir		
Sept. 30	849.07	18,130	-	756.78	4,860	-
Oct. 31	848.36	17,420	-710	755.80	4,510	-350
Nov. 30	848.65	17,710	+290	756.26	4,670	+160
Dec. 31	849.49	18,560	+850	757.13	4,980	+310
CAL YR 1972	-	-	+150	-	-	0
Jan. 31	848.81	17,870	-690	756.38	4,710	-270
Feb. 28	848.37	17,430	-440	755.81	4,520	-190
Mar. 31	849.23	18,290	+860	756.87	4,890	+370
Apr. 30	849.07	18,130	-160	756.69	4,820	- 70
May 31	848.49	17,550	-580	755.94	4,560	-260
June 30	848.76	17,820	+270	756.32	4,690	+130
July 31	848.48	17,540	-280	755.98	4,580	-110
Aug. 31	848.40	17,460	- 80	755.94	4,560	- 20
Sept. 30	847.58	16,680	-780	755.48	4,400	-160
WTR YR 1973	-	-	-1,450	-	-	-460

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03225000 Delaware Lake			03228400 Hoover Reservoir		
Sept. 30	918.40	18,600	-	891.00	62,860	-
Oct. 31	915.65	14,840	-3,760	891.27	63,620	+760
Nov. 30	910.32	8,720	-6,120	891.38	63,930	+310
Dec. 31	911.47	9,870	+1,150	890.34	61,060	-2,870
CAL YR 1972	-	-	-220	-	-	+27,360
Jan. 31	910.15	8,550	-1,320	890.30	60,950	-110
Feb. 28	910.20	8,600	+ 50	889.92	59,910	-1,040
Mar. 31	910.76	9,160	+560	893.09	68,950	+9,040
Apr. 30	915.30	14,390	+5,230	893.06	68,850	-100
May 31	915.25	14,320	- 70	893.04	68,780	- 70
June 30	915.37	14,480	+160	893.15	69,140	+360
July 31	915.28	14,360	-120	892.87	68,270	-870
Aug. 31	915.09	14,120	-240	892.00	65,670	-2,600
Sept. 30	914.40	13,220	-900	889.63	59,130	-6,540
WTR YR 1973	-	-	-5,380	-	-	-3,730

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
	03230890 Deer Creek Lake		
Sept. 30	811.04	22,380	-
Oct. 31	810.22	21,310	-1,070
Nov. 30	797.24	7,370	-13,940
Dec. 31	796.45	6,760	-610
CAL YR 1972	-	-	+700
Jan. 31	796.19	6,560	-200
Feb. 28	796.15	6,530	- 30
Mar. 31	808.74	19,450	+12,920
Apr. 30	810.37	21,510	+2,060
May 31	810.38	21,520	+ 10
June 30	810.40	21,550	+ 30
July 31	810.15	21,220	-330
Aug. 31	810.30	21,420	+200
Sept. 30	810.20	21,290	-130
WTR YR 1973	-	-	-1,090

03237280 Upper Twin Creek at McGaw, Ohio
(Hydrologic bench-mark station)

LOCATION.--Lat 38°38'37", long 83°12'57", Scioto County, on right bank, 0.3 mi (0.5 km) downstream from Brown Run, 0.3 mi (0.5 km) upstream from Tucker Run, 0.7 mi (1.1 km) upstream from bridge on U.S. Highway 52 at McGaw, 2.7 mi (4.3 km) northeast of Buena Vista, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--12.2 mi² (31.6 km²). Area at site used prior to July 21, 1972, 12.8 mi² (33.2 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 543.41 ft (165.631 m) above mean sea level, Ohio Department of Highways bench mark. Prior to July 21, 1972 water-stage recorder at site 0.7 mi (1.1 km) downstream at datum 23.41 ft (7.135 m) lower.

AVERAGE DISCHARGE.--10 years, 12.0 ft³/s (0.340 m³/s), 13.36 in/yr (339.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 862 ft³/s (24.4 m³/s) Dec. 8, gage height, 5.27 ft (1.606 m); minimum, 0.01 ft³/s (0.000 m³/s) Sept. 3-9, 11-17, 19-30.

Period of record: Maximum discharge, 3,500 ft³/s (99.1 m³/s) Mar. 4, 1964, gage height, 9.7 ft (2.96 m), in gage well, 10.2 ft (3.11 m), from outside highwater mark; no flow for many days most years.

Flood of July 3, 1960 reached a stage of 11.62 ft (3.542 m), discharge, 7,230 ft³/s (205 m³/s), on basis of contracted-opening and flow over road measurement of peak flow.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	41	14	16	8.5	5.7	30	27	11	48	1.5	.02
2	2.1	16	9.7	13	34	5.4	27	24	8.8	20	1.2	.02
3	1.5	8.8	8.0	36	32	6.9	24	77	7.3	10	.95	.02
4	1.5	6.2	9.4	76	27	6.9	109	47	5.7	36	.72	.02
5	3.1	4.4	14	45	24	7.6	59	30	5.1	29	.46	.02
6	2.4	3.1	36	36	22	7.3	45	22	6.9	13	.23	.01
7	1.9	3.1	31	21	21	7.6	40	18	8.8	7.9	.14	.01
8	1.4	9.4	310	14	31	7.3	65	34	5.7	5.1	.07	.01
9	1.0	8.0	108	11	30	6.9	56	30	4.2	3.3	.07	.02
10	.68	6.0	55	8.0	26	7.3	53	24	3.0	3.6	.07	.02
11	.48	5.0	38	5.6	15	7.6	45	48	2.3	3.6	.03	.02
12	.61	4.2	29	4.7	9.0	8.8	42	34	2.1	1.9	.07	.01
13	.61	3.8	32	4.0	10	7.6	37	22	2.5	1.4	.07	.01
14	.48	13	26	4.5	39	8.2	34	18	2.3	1.1	.14	.02
15	.48	17	59	5.4	66	8.2	31	13	1.7	.95	.14	.01
16	.42	9.4	59	4.5	40	41	29	10	6.0	.83	.14	.01
17	.36	7.0	40	3.6	24	59	27	9.2	8.8	.58	.07	.01
18	.30	5.2	34	3.3	20	47	26	7.3	20	.46	.03	.02
19	.48	21	31	5.4	17	39	48	7.3	8.5	.23	.03	.01
20	.61	38	48	4.8	15	39	48	21	6.6	5.4	.03	.01
21	.54	19	44	3.3	13	43	38	12	4.8	8.2	.03	.01
22	.61	12	41	6.9	11	34	33	9.9	3.3	12	.03	.01
23	.61	8.0	35	6.9	9.6	28	110	10	2.3	8.5	.03	.01
24	.61	6.2	31	6.0	8.0	25	69	12	1.7	16	.03	.01
25	.61	5.6	28	5.1	7.0	25	42	13	1.2	17	.03	.01
26	.54	6.6	27	5.1	7.3	31	27	12	.96	10	.03	.01
27	.54	8.3	24	7.6	7.3	29	149	12	2.1	8.2	.03	.01
28	.61	15	22	7.9	6.3	27	100	18	7.6	6.0	.02	.01
29	.76	24	18	8.5	------	27	44	15	4.5	3.9	.02	.01
30	.76	19	17	6.9	------	36	33	13	3.3	2.3	.02	.01
31	1.0	------	20	7.6	------	34	------	13	------	1.7	.02	------
TOTAL	30.60	353.3	1,298.1	393.6	580.0	673.3	1,520	662.7	159.06	286.15	6.45	.40
MEAN	.99	11.8	41.9	12.7	20.7	21.7	50.7	21.4	5.30	9.23	.21	.013
MAX	3.1	41	310	76	66	59	149	77	20	48	1.5	.02
MIN	.30	3.1	8.0	3.3	6.3	5.4	24	7.3	.96	.23	.02	.01
CFSM	.08	.97	3.43	1.04	1.70	1.78	4.16	1.75	.43	.76	.02	.001
IN.	.09	1.08	3.96	1.20	1.77	2.05	4.63	2.02	.49	.87	.02	.001

CAL YR 1972 TOTAL 6,136.63 MEAN 16.8 MAX 310 MIN .03 CFSM 1.38 IN 18.71
WTR YR 1973 TOTAL 5,963.66 MEAN 16.3 MAX 310 MIN .01 CFSM 1.34 IN 18.18

PEAK DISCHARGE (BASE, 450 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1500	5.27	862	7-1	1545	4.52	491

03237500 Ohio Brush Creek near West Union, Ohio

LOCATION.--Lat 38°48'13", long 83°25'16", Adams County, on right bank at downstream side of bridge on State Highway 348, 0.3 mi (0.5 km) downstream from Cedar Run, 7.0 mi (11.3 km) east of West Union, and 7.1 mi (11.4 km) upstream from Beasley Fork.

DRAINAGE AREA.--387 mi² (1,002 km²).

PERIOD OF RECORD.--August 1926 to November 1935, September 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 510.6 ft (155.63 m) above mean sea level, adjustment of 1912. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 437 ft³/s (12.38 m³/s), 15.33 in/yr (389.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,300 ft³/s (518 m³/s) Dec. 9, gage height, 18.10 ft (5.517 m); minimum, 7.1 ft³/s (0.20 m³/s) Sept. 22, 23.

Period of record: Maximum discharge, 59,200 ft³/s (1,680 m³/s) Mar. 10, 1964, gage height, 27.91 ft (8.507 m), from rating curve extended above 22,000 ft³/s (623 m³/s) on basis of slope-area measurement of peak flow; no flow Sept. 13-23, 27, 28, 1955 and for part of each day Sept. 17, 18, 1964.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	4,530	475	792	328	165	1,020	1,110	364	213	696	42
2	145	2,220	405	400	1,490	160	666	720	262	570	346	47
3	80	1,730	333	515	1,060	190	585	1,660	206	220	158	34
4	78	545	364	3,260	545	242	4,990	931	171	1,190	98	25
5	369	319	994	959	400	346	1,960	550	315	1,020	69	18
6	238	220	2,140	560	337	382	973	405	294	337	60	13
7	125	1,630	1,160	378	319	254	648	342	250	171	50	11
8	80	4,010	5,610	250	500	223	3,490	391	177	123	44	9.1
9	60	882	7,620	180	520	183	1,710	515	138	90	40	18
10	47	495	1,870	150	294	165	2,140	355	110	74	36	20
11	38	1,160	1,040	130	220	160	1,270	600	93	209	30	15
12	31	595	980	110	190	153	889	319	80	153	27	12
13	26	391	2,040	100	170	138	750	227	100	86	744	15
14	23	6,720	1,020	110	756	125	530	186	150	53	1,300	22
15	21	1,460	1,250	100	2,300	153	425	163	93	54	660	17
16	21	654	1,440	110	952	274	364	145	2,340	50	274	12
17	22	435	460	120	400	2,080	360	145	1,000	47	140	9.7
18	19	324	430	153	350	1,410	440	140	570	42	93	11
19	19	525	400	183	300	1,020	2,190	168	294	37	72	9.7
20	20	3,450	2,580	220	290	624	1,510	945	445	36	69	8.6
21	19	1,010	1,320	165	256	768	678	410	1,390	230	63	8.6
22	18	565	861	319	238	420	470	230	585	1,200	54	7.6
23	17	405	612	595	216	360	5,520	177	250	945	48	8.1
24	16	310	475	410	195	298	3,790	165	155	342	38	9.7
25	15	266	400	266	174	369	1,520	163	118	834	34	9.7
26	16	306	364	220	177	2,420	1,210	708	88	606	29	8.6
27	19	510	420	378	195	1,000	3,240	1,580	78	470	27	13
28	25	648	342	480	193	580	3,630	2,450	223	202	26	18
29	33	889	286	684	------	475	1,180	762	202	128	24	34
30	33	580	262	355	------	2,110	889	490	123	86	20	18
31	35	------	369	266	------	1,000	------	550	------	69	17	------
TOTAL	2,128	37,784	38,322	12,918	13,365	18,247	49,037	17,702	10,664	9,887	5,386	504.4
MEAN	68.6	1,259	1,236	417	477	589	1,635	571	355	319	174	16.8
MAX	420	6,720	7,620	3,260	2,300	2,420	5,520	2,450	2,340	1,200	1,300	47
MIN	15	220	262	100	170	125	360	140	78	36	17	7.6
CFSM	.18	3.25	3.19	1.08	1.23	1.52	4.22	1.48	.92	.82	.45	.04
IN.	.20	3.63	3.68	1.24	1.28	1.75	4.71	1.70	1.03	.95	.52	.05

CAL YR 1972 TOTAL 200,327.9 MEAN 547 MAX 7,620 MIN 3.0 CFSM 1.41 IN 19.26
WTR YR 1973 TOTAL 215,944.4 MEAN 592 MAX 7,620 MIN 7.6 CFSM 1.53 IN 20.76

PEAK DISCHARGE (BASE, 11,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0845	15.19	12,500	4-23	2245	16.77	15,600
12-9	0200	18.10	18,300				

03238500 Whiteoak Creek near Georgetown, Ohio

LOCATION.--Lat 38°51'29", long 83°55'43", Brown County, on left bank 150 ft (46 m) upstream from diversion dam for Georgetown water treatment plant, 0.7 mi (1.1 km) upstream from Town Run, 1.4 mi (2.3 km) southwest of Georgetown, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--218 mi² (565 km²).

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.20 ft (184.160 m) above mean sea level. Prior to Oct. 12, 1972 nonrecording gage at a site 1.0 mi (1.6 km) downstream at a datum 35.24 ft (10.741 m) lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

AVERAGE DISCHARGE.--46 ft³/s (1.303 m³/s), 15.32 in/yr (389.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,020 ft³/s (199 m³/s) Dec. 9, gage height, 7.36 ft (2.243 m); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 19, 20.

Period of record: Maximum discharge, 22,400 ft³/s (634 m³/s) Mar. 10, 1964; maximum gage height, 20.87 ft (6.361 m), site and datum then in use, May 14, 1933; no flow at times in 1930, 1940-41, 1943, 1948, 1951-53, 1959, 1969, 1970.

REMARKS.--Records good above 50 ft³/s (1.42 m³/s), fair below. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1924-31. WSP 758: 1933. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387	3,410	294	809	132	65	713	271	164	88	181	57
2	96	3,760	306	242	1,330	62	375	225	96	213	150	29
3	54	2,520	204	321	728	64	343	677	81	145	74	15
4	74	412	204	2,510	300	88	3,130	343	64	504	47	11
5	385	188	654	483	178	290	1,610	174	127	691	34	11
6	244	128	1,950	215	132	270	407	120	259	204	26	44
7	94	1,870	962	100	112	190	312	96	136	96	23	116
8	59	4,460	3,140	93	145	140	3,560	116	96	64	18	47
9	42	612	5,290	80	225	120	984	164	67	48	15	37
10	34	329	995	70	98	110	1,450	132	54	38	13	29
11	25	921	476	63	65	95	662	191	48	35	11	20
12	20	385	282	59	54	90	414	124	38	57	9.3	23
13	20	1,040	1,620	56	49	82	394	81	35	32	1,350	15
14	20	5,930	602	54	396	76	210	60	100	20	2,310	13
15	23	1,020	409	58	2,100	199	150	54	100	18	1,200	9.3
16	23	300	664	58	574	979	124	48	1,360	20	184	7.6
17	20	169	170	57	225	3,940	160	45	1,420	23	92	7.6
18	18	128	150	60	180	1,380	1,290	48	528	23	60	7.6
19	18	233	136	67	130	688	3,190	67	178	20	44	6.1
20	20	1,900	1,900	92	96	348	1,730	357	586	23	265	6.1
21	20	541	948	81	98	573	362	169	2,710	262	271	6.1
22	20	236	505	155	90	294	204	92	589	790	96	7.6
23	20	160	325	573	80	194	2,360	74	188	253	47	9.3
24	23	112	210	277	70	160	2,880	64	104	179	31	9.3
25	23	88	160	141	64	184	807	150	74	1,680	23	29
26	25	124	145	112	60	1,690	705	373	57	300	20	29
27	29	355	277	267	62	558	2,030	2,660	175	136	18	15
28	35	337	164	401	68	271	2,770	1,240	848	92	15	11
29	32	520	120	736	------	303	414	312	220	64	11	11
30	32	331	116	225	------	1,460	265	204	104	44	13	11
31	38	------	873	124	------	535	------	277	------	63	18	------
TOTAL	1,973	32,519	24,251	8,639	7,841	15,538	34,005	9,008	10,606	6,225	6,669.3	649.6
MEAN	63.6	1,084	782	279	280	501	1,134	291	354	201	215	21.7
MAX	387	5,930	5,290	2,510	2,100	3,940	3,560	2,660	2,710	1,680	2,310	116
MIN	18	88	116	54	49	62	124	45	35	18	9.3	6.1
CFSM	.29	4.97	3.59	1.28	1.28	2.30	5.20	1.33	1.62	.92	.99	.10
IN.	.34	5.55	4.14	1.47	1.34	2.65	5.80	1.54	1.81	1.06	1.14	.11

CAL YR 1972 TOTAL 138,267.50 MEAN 378 MAX 5,930 MIN .13 CFSM 1.73 IN 23.59
WTR YR 1973 TOTAL 157,923.90 MEAN 433 MAX 5,930 MIN 6.1 CFSM 1.99 IN 26.95

PEAK DISCHARGE (BASE, 5,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	0830	6.75	5,800	12-9	0630	7.36	7,020
11-14	1530	7.20	6,700	4-24	0200	6.77	5,840

03240000 Little Miami River near Oldtown, Ohio

LOCATION.--Lat 39°44'54", long 83°55'53", in sec. 34, R.7, T.4, Greene County, on right bank at downstream side of bridge on U.S. Highway 68, 0.8 mi (1.3 km) downstream from Conner Branch, 0.9 mi (1.4 km) upstream from Massies Creek, and 1.3 mi (2.1 km) northeast of Oldtown.

DRAINAGE AREA.--129 mi² (334 km²).

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.56 ft (248.887 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 104 ft³/s (2.945 m³/s), 10.95 in/yr (278.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 17, gage height, 8.40 ft (2.560 m); minimum, 21 ft³/s (0.59 m³/s) Sept. 26, 27, 28, 29.

Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) Jan. 21, 1959, gage height, 12.20 ft (3.719 m), from rating curve extended above 4,400 ft³/s (125 m³/s) on basis of slope-area measurement of peak flow; minimum, 5.4 ft³/s (0.15 m³/s) July 29, 1954, result of temporary storage at rock dam upstream.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	177	157	442	159	86	384	215	98	192	135	60
2	79	463	173	273	421	88	297	194	86	167	127	54
3	58	463	194	228	408	92	249	217	82	562	118	51
4	51	258	178	511	272	100	323	184	113	577	110	48
5	57	186	169	360	218	112	451	162	330	502	105	48
6	68	150	304	243	187	125	316	151	320	293	99	46
7	57	173	329	190	168	116	257	144	269	207	91	44
8	48	545	349	168	164	107	263	158	184	173	88	42
9	42	351	651	140	147	101	274	162	151	154	94	45
10	37	246	460	130	133	114	385	145	126	239	100	44
11	34	269	313	120	122	162	333	135	110	157	110	43
12	37	223	245	110	114	194	302	126	231	136	100	39
13	138	226	434	110	111	153	419	118	373	118	110	39
14	91	1,030	357	100	117	186	295	115	207	160	131	39
15	68	674	265	100	168	523	240	113	154	293	120	41
16	57	359	205	100	168	337	212	110	151	171	94	36
17	56	268	170	107	130	680	252	105	792	140	94	36
18	54	218	160	107	120	535	751	101	953	122	77	36
19	49	198	150	122	118	459	592	106	405	113	84	34
20	46	255	406	117	113	361	413	135	911	127	117	35
21	48	219	438	105	109	281	300	113	455	529	94	33
22	42	187	377	149	100	233	251	99	293	721	82	35
23	43	168	302	238	102	200	271	98	229	328	73	33
24	42	154	249	181	94	183	283	103	196	247	69	33
25	41	147	215	150	91	200	231	99	205	613	68	34
26	39	154	201	139	92	581	207	98	173	413	65	30
27	38	156	189	156	89	540	285	105	305	257	62	32
28	42	175	176	195	87	334	481	105	445	197	59	31
29	42	166	165	245	------	340	290	99	363	169	56	31
30	41	161	169	181	------	606	235	120	245	153	59	35
31	42	------	408	156	------	417	------	115	------	140	65	------
TOTAL	1,719	8,419	8,558	5,673	4,322	8,546	9,842	4,050	8,955	8,380	2,846	1,188
MEAN	55.5	281	276	183	154	276	328	131	299	270	91.8	39.6
MAX	138	1,030	651	511	421	680	751	217	953	721	135	60
MIN	34	147	150	100	87	86	207	98	82	113	56	30
CFSM	.43	2.18	2.14	1.42	1.19	2.14	2.54	1.02	2.32	2.09	.71	.31
IN.	.50	2.43	2.47	1.64	1.25	2.46	2.84	1.17	2.58	2.42	.82	.34

CAL YR 1972 TOTAL 51,533 MEAN 141 MAX 1,030 MIN 16 CFSM 1.09 IN 14.86
WTR YR 1973 TOTAL 72,498 MEAN 199 MAX 1,030 MIN 30 CFSM 1.54 IN 20.91

PEAK DISCHARGE (BASE, 800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1945	5.92	1,330	6-20	0130	6.08	1,370	7-22	0015	6.28	1,450
4-18	1515	5.11	1,010	7-3	2230	5.26	1,040	7-25	1545	6.69	1,620
6-17	2000	8.40	2,550								

03241500 Massies Creek at Wilberforce, Ohio

LOCATION.--Lat 39°43'22", long 83°52'58", Greene County, on right bank 200 ft (61 m) downstream from bridge on Wilberforce-Clinton Road, 0.5 mi (0.8 km) northwest of Wilberforce, 0.6 mi (1.0 km) downstream from unnamed right bank tributary and 1.7 mi (2.7 km) upstream from Clark Run.

DRAINAGE AREA.--63.2 mi² (164 km²).

PERIOD OF RECORD.--September 1952 to current year. Prior to October 1962, published as Massie Creek at Wilberforce.

GAGE.--Water-stage recorder. Datum of gage is 865.15 ft (263.698 m) above mean sea level. Prior to Aug. 4, 1972 at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--21 years, 57.6 ft³/s (1.631 m³/s), 12.38 in/yr (314.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 868 ft³/s (24.6 m³/s) Apr. 18, gage height, 5.62 ft (1.713 m); minimum, 8.0 ft³/s (0.23 m³/s) Sept. 22.
Period of record: Maximum discharge, 7,300 ft³/s (207 m³/s) Jan. 21, 1959, Mar. 4, 1963, gage height, 11.25 ft (3.429 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.3 ft³/s (0.008 m³/s) Sept. 3-7, 1954.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	193	87	235	88	33	228	115	32	111	60	19
2	89	375	105	146	285	34	170	102	29	91	52	15
3	65	425	111	136	238	38	132	106	27	140	44	14
4	54	230	99	345	158	40	192	91	109	174	39	14
5	59	168	100	218	123	49	240	77	275	114	35	12
6	66	126	230	138	102	58	166	70	146	79	32	15
7	56	162	208	100	85	55	130	66	117	61	29	12
8	47	425	278	82	82	48	130	70	81	52	27	11
9	39	263	466	72	68	45	142	66	65	46	28	13
10	32	190	330	62	64	53	208	59	54	108	31	12
11	29	194	206	59	56	79	180	56	46	50	56	11
12	31	152	158	54	50	87	164	52	58	39	49	11
13	28	218	278	50	48	65	202	49	174	35	40	10
14	27	754	208	47	53	120	146	46	94	58	90	11
15	25	505	158	45	93	300	117	45	66	99	90	10
16	24	250	115	40	87	220	102	43	77	56	56	9.5
17	24	184	109	43	70	526	204	43	250	41	43	9.0
18	22	144	87	45	62	368	628	39	303	35	35	9.5
19	21	132	90	53	55	300	472	47	160	31	34	9.0
20	20	198	258	47	52	218	305	68	502	35	60	9.0
21	21	162	258	40	47	166	200	54	345	355	37	8.5
22	21	127	215	70	44	127	162	46	176	440	29	10
23	23	106	172	124	44	106	186	43	140	225	25	17
24	22	93	136	90	38	96	196	41	115	162	24	11
25	21	87	115	71	35	111	148	41	111	345	23	9.5
26	21	88	108	65	36	360	123	41	106	333	21	9.0
27	20	88	100	81	35	303	235	40	196	204	19	9.0
28	22	103	90	109	34	186	348	40	410	126	18	9.0
29	23	94	82	130	------	250	188	40	240	91	17	12
30	22	91	84	96	------	425	140	43	160	73	21	13
31	24	------	270	77	------	275	------	36	------	64	23	------
TOTAL	1,137	6,327	5,311	2,970	2,232	5,141	6,184	1,775	4,664	3,873	1,187	344.0
MEAN	36.7	211	171	95.8	79.7	166	206	57.3	155	125	38.3	11.5
MAX	139	754	466	345	285	526	628	115	502	440	90	19
MIN	20	87	82	40	34	33	102	36	27	31	17	8.5
CFSM	.58	3.34	2.71	1.52	1.26	2.63	3.26	.91	2.45	1.98	.61	.18
IN.	.67	3.72	3.13	1.75	1.31	3.03	3.64	1.04	2.75	2.28	.70	.20

CAL YR 1972 TOTAL 32,751.9 MEAN 89.5 MAX 848 MIN 6.0 CFSM 1.42 IN 19.28
WTR YR 1973 TOTAL 41,145.0 MEAN 113 MAX 754 MIN 8.5 CFSM 1.79 IN 24.22

PEAK DISCHARGE (BASE, 600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1630	5.49	816	6-20	1830	4.96	628	7-21	2300	5.45	800
4-18	1330	5.62	868	7-10	1400	5.07	661	7-25	1400	5.42	788
6-17	1730	5.05	655								

03242050 Little Miami River near Spring Valley, Ohio

LOCATION.--Lat 39°35'00", long 84°01'49", Greene County, on right bank at downstream side of bridge on New Burlington Road, 0.3 mi (0.5 km) upstream from unnamed right bank tributary, 2.2 mi (3.5 km) southwest of Spring Valley, and 2.8 mi (4.5 km) downstream from Glady Run.

DRAINAGE AREA.--366 mi^2 (948 km^2).

PERIOD OF RECORD.--September 1925 to December 1935 and October 1939 to December 1951 (published as "at Spring Valley"), July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 729.29 ft (222.288 m) above mean sea level. Prior to Dec. 12, 1939 nonrecording gage and Dec. 13, 1939 to Dec. 31, 1951 water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 8.6 ft (2.62 m) higher.

AVERAGE DISCHARGE.--27 years (1925-35, 1939-51, 1969-73), 377 ft^3/s (10.68 m^3/s), 13.99 in/yr (355.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,530 ft^3/s (100.0 m^3/s) July 21, gage height, 10.33 ft (3.149 m); minimum, 119 ft^3/s (3.37 m^3/s) Sept. 27, 28, 29.

Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Feb. 26, 1929, gage height 16.8 ft (5.12 m) site and datum then in use; minimum, 23 ft^3/s (0.65 m^3/s) July 27, 1934.

Flood of Jan. 21, 1959 reached a stage of 18.1 ft (5.52 m) (revised) at present site and datum, discharge, 36,400 ft^3/s (1,030 m^3/s).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 893: 1932(M). WSP 1053: 1929. WSP 2108: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	488	736	492	1,370	572	280	1,310	680	307	568	448	201
2	321	1,460	552	852	1,210	286	955	632	273	484	370	182
3	245	1,390	580	728	1,240	295	780	708	255	612	338	171
4	260	844	552	1,620	832	307	1,220	616	283	1,100	301	168
5	380	608	532	1,190	680	373	1,400	536	980	955	280	167
6	265	488	840	784	592	384	945	484	920	656	265	183
7	241	688	995	616	528	370	780	464	800	480	253	165
8	211	1,580	1,460	532	520	345	816	592	620	396	245	155
9	192	1,150	2,100	472	468	324	828	552	500	352	265	162
10	177	768	1,440	380	416	377	1,120	472	400	688	295	165
11	167	784	970	350	377	592	848	432	360	896	328	156
12	174	680	764	330	356	620	910	388	720	392	331	150
13	207	784	1,210	320	349	496	1,090	363	1,100	321	304	143
14	217	2,850	1,090	310	366	636	780	352	800	289	440	147
15	186	2,190	800	300	576	1,670	716	345	440	788	424	143
16	171	1,180	656	310	572	1,180	644	331	460	468	321	137
17	164	832	490	321	412	1,990	1,030	321	2,300	356	270	131
18	162	680	460	331	420	1,040	2,500	307	3,100	298	245	141
19	158	660	500	370	388	1,260	2,240	356	1,700	270	235	137
20	149	955	1,530	363	370	1,060	1,420	516	2,800	324	576	132
21	140	768	1,350	321	352	828	1,010	377	1,700	2,800	363	131
22	140	644	1,080	492	331	696	820	324	900	2,090	263	128
23	156	560	868	692	324	612	975	307	720	1,190	231	217
24	146	500	732	592	304	556	1,010	400	520	1,180	225	141
25	141	468	644	476	289	632	788	366	540	1,270	219	132
26	140	488	624	436	295	1,930	708	408	480	1,680	201	129
27	135	508	592	504	292	1,620	1,050	380	1,200	965	194	122
28	146	536	552	620	283	1,030	1,610	377	1,450	676	189	120
29	144	528	512	776	------	1,330	1,000	335	1,130	544	183	146
30	141	500	504	604	------	1,900	764	380	728	480	201	201
31	141	------	1,460	512	------	1,400	------	349	------	460	310	------
TOTAL	6,105	26,807	26,931	17,874	13,714	26,419	32,067	13,450	28,486	24,028	9,113	4,603
MEAN	197	894	869	577	490	852	1,069	434	950	775	294	153
MAX	488	2,850	2,100	1,620	1,240	1,990	2,500	708	3,100	2,800	576	217
MIN	135	468	460	300	283	280	644	307	255	270	183	120
CFSM	.54	2.44	2.37	1.58	1.34	2.33	2.92	1.19	2.60	2.12	.80	.42
IN.	.62	2.72	2.74	1.82	1.39	2.69	3.26	1.37	2.90	2.44	.93	.47

CAL YR 1972 TOTAL 172,127 MEAN 470 MAX 3,500 MIN 79 CFSM 1.28 IN 17.49
WTR YR 1973 TOTAL 229,597 MEAN 629 MAX 3,100 MIN 120 CFSM 1.72 IN 23.34

Peak Discharge (Base, 3,600 FT^3/S).--No peaks above base.

03242150 Caesar Creek near Xenia, Ohio

LOCATION.--Lat 39°37'25", long 83°54'09", Greene County, on left bank at downstream side of bridge on Winchester Road, 0.2 mi (0.3 km) downstream from unnamed left bank tributary, 4.5 mi (7.2 km) south of Xenia, and 7.4 mi (11.9 km) upstream from Anderson Fork.

DRAINAGE AREA.--71.4 mi² (185 km²).

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 894.18 ft (272.546 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 74.1 ft³/s (2.099 m³/s), 14.09 in/yr (357.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,080 ft³/s (58.9 m³/s) June 12, gage height, 9.85 ft (3.002 m); minimum daily, 6.8 ft³/s (0.19 m³/s) Sept. 21.
Period of record: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Apr. 2, 1970, gage height, 11.86 ft (3.615 m); minimum daily, 0.44 ft³/s (0.012 m³/s) Oct. 9, 1970.

REMARKS.--Records good. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee, 7.2 mi (11.6 km) upstream, drainage area 10.9 mi² (28.2 km²). Summer storage is about 1,100 acre-ft (1.36 hm³) more than winter. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	347	96	208	84	30	204	106	35	59	41	43
2	56	822	116	122	375	31	137	89	31	48	34	27
3	35	467	109	177	222	35	94	73	28	41	27	20
4	29	238	93	452	149	38	248	60	38	37	23	16
5	46	130	91	192	118	51	272	49	90	36	20	14
6	48	73	324	119	100	51	143	42	77	28	18	13
7	35	262	167	72	87	55	97	40	83	24	16	11
8	28	554	585	64	57	48	131	46	55	21	15	10
9	24	261	591	59	43	42	164	53	42	19	14	13
10	18	165	346	55	38	63	236	44	34	29	21	12
11	15	144	204	48	36	87	164	39	27	27	27	10
12	17	96	155	42	33	76	164	34	429	19	27	10
13	17	376	335	35	32	56	167	30	240	15	27	9.1
14	15	1,170	198	31	48	123	102	28	80	50	129	8.7
15	13	404	140	27	112	236	83	25	53	123	69	8.3
16	13	233	96	25	95	230	84	23	68	31	40	8.0
17	11	173	86	26	74	640	230	23	204	21	29	7.4
18	10	138	76	27	63	276	808	21	236	16	22	7.4
19	9.0	153	88	32	56	196	504	23	127	15	20	7.4
20	7.9	249	307	28	52	135	280	42	1,080	14	90	7.1
21	7.5	175	231	23	47	100	161	29	288	630	37	6.8
22	8.1	158	181	55	41	78	125	24	132	248	24	8.7
23	9.7	130	137	103	37	64	174	22	78	122	18	50
24	10	110	112	66	35	58	174	126	62	161	16	11
25	10	99	94	51	33	87	121	132	53	340	16	8.7
26	9.3	101	89	46	33	434	138	65	47	249	15	7.5
27	9.0	106	83	73	33	206	365	60	461	150	14	7.2
28	11	116	74	104	31	127	401	64	395	40	12	7.0
29	12	103	68	123	------	320	170	64	159	58	12	17
30	12	99	69	75	------	532	127	78	90	46	120	21
31	12	------	382	56	------	262	------	41	------	40	109	------
TOTAL	655.5	7,652	5,723	2,616	2,164	4,767	6,268	1,595	4,822	2,844	1,102	407.3
MEAN	21.1	255	185	84.4	77.3	154	209	51.5	161	91.7	35.5	13.6
MAX	98	1,170	591	452	375	640	808	132	1,080	630	129	50
MIN	7.5	73	68	23	31	30	83	21	27	14	12	6.8
CFSM	.30	3.57	2.59	1.18	1.08	2.16	2.93	.72	2.25	1.28	.50	.19
IN.	.34	3.99	2.98	1.36	1.13	2.48	3.27	.83	2.51	1.48	.57	.21

CAL YR 1972 TOTAL 35,811.3 MEAN 97.8 MAX 1,350 MIN 1.3 CFSM 1.37 IN 18.66
WTR YR 1973 TOTAL 40,615.8 MEAN 111 MAX 1,170 MIN 6.8 CFSM 1.55 IN 21.16

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1400	7.92	1,130	4-18	1400	8.17	1,240	6-27	1730	8.01	1,160
11-13	2400	9.14	1,720	6-12	2000	9.85	2,080	7-21	0730	8.13	1,220
12-8	1730	8.09	1,200	6-20	0200	8.99	1,640				

03242200 Anderson Fork near New Burlington, Ohio

LOCATION.--Lat 39°33'59", long 83°54'10", Greene County, on right bank at downstream side of bridge on Old Winchester Trail, 1.0 mi (1.6 km) downstream from Painters Run, 3.4 mi (5.5 km) east of New Burlington, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--77.8 mi² (202 km²).

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 883.67 ft (269.343 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 77.9 ft³/s (2.206 m³/s), 13.60 in/yr (345.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,200 ft³/s (62.3 m³/s) July 21, gage height, 11.22 ft (3.420 m); minimum, 4.0 ft³/s (0.11 m³/s) Sept. 27, 29, 30.

Period of record: Maximum discharge, 2,610 ft³/s (73.9 m³/s) Apr. 2, 1970, gage height, 12.22 ft (3.725 m); minimum, 0.08 ft³/s (0.002 m³/s) Sept. 24, 25, 1970.

REMARKS.--Records poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	265	106	240	121	29	207	129	108	80	47	69
2	29	670	145	137	402	30	147	102	75	52	40	35
3	13	463	143	187	268	35	110	95	56	44	31	20
4	12	258	119	530	169	36	321	80	47	39	23	11
5	72	153	119	253	125	49	308	65	83	35	16	9.6
6	75	101	275	141	102	68	179	55	91	27	12	8.9
7	47	263	218	80	84	71	127	51	133	22	10	8.9
8	29	635	600	52	70	53	163	59	83	16	10	8.2
9	16	336	859	40	58	46	211	53	59	12	10	8.2
10	8.9	209	551	32	48	42	288	44	46	25	10	8.2
11	7.0	183	265	29	42	47	203	39	36	18	10	7.6
12	6.4	145	163	27	39	43	189	34	84	10	11	7.6
13	6.4	333	330	26	36	34	203	30	101	8.2	11	7.6
14	6.4	1,130	220	25	48	51	137	26	63	31	68	7.6
15	5.8	544	161	25	177	127	101	23	46	59	44	6.4
16	5.8	290	121	24	133	211	84	21	49	33	23	6.4
17	5.2	171	91	30	86	659	143	21	74	16	13	5.8
18	5.2	125	83	39	75	354	645	15	149	9.6	10	5.8
19	5.2	133	84	48	56	240	607	20	183	7.6	11	5.8
20	4.6	300	283	42	52	163	402	29	817	36	66	5.2
21	4.6	195	285	34	47	115	225	26	243	1,220	21	5.2
22	4.6	145	218	74	42	83	149	18	139	484	12	4.6
23	5.8	115	155	137	42	66	345	17	87	253	11	17
24	6.4	97	121	102	33	58	519	27	62	310	11	9.6
25	6.4	94	99	77	29	81	273	48	49	516	10	5.8
26	6.4	99	95	69	30	402	177	137	44	390	10	5.2
27	6.4	101	94	115	33	218	453	91	308	175	9.6	4.6
28	6.4	104	83	159	29	137	582	101	357	111	9.6	4.6
29	5.8	106	72	197	------	228	283	87	193	74	8.9	4.1
30	5.8	108	78	125	------	439	169	78	108	53	75	4.1
31	5.8	------	339	92	------	248	------	165	------	48	205	------
TOTAL	483.3	7,871	6,575	3,188	2,476	4,463	7,950	1,786	3,972	4,214.4	859.1	317.6
MEAN	15.6	262	212	103	88.4	144	265	57.6	132	136	27.7	10.6
MAX	75	1,130	859	530	402	659	645	165	817	1,220	205	69
MIN	4.6	94	72	24	29	29	84	15	36	7.6	8.9	4.1
CFSM	.20	3.37	2.72	1.32	1.14	1.85	3.41	.74	1.70	1.75	.36	.14
IN.	.23	3.76	3.14	1.52	1.18	2.13	3.80	.85	1.90	2.02	.41	.15

CAL YR 1972 TOTAL 39,072.01 MEAN 107 MAX 1,350 MIN .46 CFSM 1.38 IN 18.68
WTR YR 1973 TOTAL 44,155.40 MEAN 121 MAX 1,220 MIN 4.1 CFSM 1.56 IN 21.11

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0200	9.90	1,550	6-20	0100	9.70	1,430
12-8	1830	9.11	1,230	7-21	0730	11.22	2,200
4-18	1430	8.80	1,090				

03242300 Caesar Creek at Harveysburg, Ohio

LOCATION.--Lat 39°30'27", long 84°00'42", Warren County, on right bank at downstream side of bridge on State Highway 73, 0.2 mi (0.3 km) north of Harveysburg, 2.3 mi (3.7 km) downstream from Turkey Run, and 3.1 mi (5.0 km) upstream from Jonahs Run.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 781.83 ft (238.302 m) above mean sea level. June 19 to Oct. 10, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--13 years, 203 ft³/s (5.749 m³/s), 13.19 in/yr (335.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,180 ft³/s (147 m³/s) July 21, gage height, 10.08 ft (3.072 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 18-23, 29, 30.

Period of record: Maximum discharge, 24,000 ft³/s (680 m³/s) May 24, 1968, gage height 18.70 ft (5.700 m), from rating curve extended above 5,200 ft³/s (147 m³/s) on basis of drainage area ratio comparisons with three nearby stations; no flow all or part of each day Sept. 9-18, Oct. 17, 18, 1964.

Flood of Jan. 21, 1959 reached a stage of 20.5 ft (6.25 m), from floodmark, discharge, 26,000 ft³/s (736 m³/s), from rating curve extended above 12,000 ft³/s (340 m³/s).

REMARKS.--Records fair except December through March, which are poor. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee 20.5 mi (33.0 km) upstream, drainage area 10.9 mi² (28.2 km²). Summer storage is about 1,100 acre-ft (1.36 hm³) more than winter. Intermittent pumpage, upstream from gage, for local irrigation. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	793	317	764	305	72	580	343	198	223	148	190
2	141	2,250	397	421	1,060	78	400	288	144	175	122	104
3	87	1,380	397	458	776	89	330	250	113	149	102	70
4	70	700	334	1,570	481	100	928	210	96	127	86	51
5	144	426	321	683	361	132	945	170	254	129	71	39
6	183	276	833	407	301	163	523	144	299	100	59	35
7	129	577	628	320	220	166	365	135	334	89	53	30
8	91	1,700	1,700	250	190	153	416	147	210	74	47	25
9	66	845	2,270	210	160	138	528	156	144	57	44	24
10	51	555	1,280	190	130	166	788	126	110	94	47	26
11	42	496	723	170	100	246	565	116	91	100	48	22
12	38	365	496	160	96	265	528	98	425	59	53	19
13	39	746	1,010	140	91	229	570	84	853	47	86	18
14	36	3,510	656	130	113	354	370	78	242	90	285	17
15	35	1,380	480	110	330	886	288	74	150	334	193	15
16	33	788	360	100	284	1,010	250	72	143	113	109	14
17	32	534	300	94	187	1,700	643	70	291	69	76	13
18	32	407	280	100	150	1,100	2,510	65	581	58	58	13
19	30	412	270	110	121	780	1,650	63	288	41	61	12
20	32	822	980	94	113	540	1,020	103	2,310	130	307	12
21	36	570	758	80	103	420	586	82	854	3,730	135	12
22	39	455	586	160	89	310	421	68	485	1,440	72	12
23	46	375	431	320	80	250	718	63	280	735	53	70
24	48	321	346	250	78	260	969	139	205	1,130	44	49
25	46	296	296	210	72	460	560	345	170	1,360	44	27
26	46	313	276	190	76	1,000	455	352	143	1,110	37	19
27	46	321	266	250	76	620	1,290	238	1,040	610	30	15
28	48	339	246	445	72	450	1,460	246	1,290	343	27	13
29	56	326	210	471	------	700	656	217	635	226	24	13
30	54	326	217	339	------	1,100	431	210	370	157	135	14
31	53	------	1,230	261	------	750	------	257	------	145	675	------
TOTAL	2,134	22,604	18,894	9,457	6,215	14,687	21,743	5,009	12,748	13,245	3,331	993
MEAN	68.8	753	609	305	222	474	725	162	425	427	108	33.1
MAX	305	3,510	2,270	1,570	1,060	1,700	2,510	352	2,310	3,730	675	190
MIN	30	276	210	80	72	72	250	63	91	41	24	12
CFSM	.33	3.60	2.91	1.46	1.06	2.27	3.47	.78	2.03	2.04	.52	.16
IN.	.38	4.02	3.36	1.68	1.11	2.61	3.87	.89	2.27	2.36	.59	.18

CAL YR 1972 TOTAL 109,777.9 MEAN 300 MAX 3,820 MIN 2.6 CFSM 1.44 IN 19.54
WTR YR 1973 TOTAL 131,062.0 MEAN 359 MAX 3,730 MIN 12 CFSM 1.72 IN 23.33

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	**DISCHARGE**	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1300	7.60	3,160	3-17	0100	7.46	3,060	6-20	0700	7.86	3,350
11-14	0500	9.26	4,470	4-18	1500	8.27	3,680	7-21	0830	10.08	5,180
12-8	2000	8.42	3,800								

03242350 Caesar Creek near Wellman, Ohio

LOCATION.--Lat 39°28'57", long 84°03'52", Warren County, on downstream side of bridge on O'Neall Road, 0.5 mi (0.8 km) downstream from Flat Fork, 1.6 mi (2.6 km) west of Wellman, 2.8 mi (4.5 km) upstream from mouth, and 3.2 mi (5.1 km) southwest of Harveysburg.

DRAINAGE AREA.--239 mi² (619 km²).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 730.93 ft (28 m) (revised) above mean sea level.

AVERAGE DISCHARGE.--8 years, 235 ft³/s (6.655 m³/s), 13.35 in/yr (339.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,940 ft³/s (168 m³/s) July 21, gage height, 14.10 ft (4.298 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 22, 26.

Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) May 24, 1968, gage height, 21.7 ft (6.61 m), from rating curve extended above 4,700 ft³/s (133 m³/s) on the basis of slope-conveyance study; minimum, 0.50 ft³/s (0.014 m³/s) Aug. 24, 1965, gage height, 3.88 ft (1.183 m).

Flood of Jan. 21, 1959 reached a stage of 24.03 ft (7.324 m), from information by Ohio Division of Water, discharge, about 29,000 ft³/s (821 m³/s), from flood study.

REMARKS.--Records good. Since 1964, some regulation by seasonal changes in storage in Lake Shawnee 26 mi (42 km) upstream, drainage area 10.9 mi² (28.2 km²). Summer Storage is about 1,100 acre-ft (1.36 hm³) more than winter. Also some regulation by unfinished Caesar Creek Lake. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	809	336	905	451	122	746	399	252	225	140	178
2	103	1,970	367	497	1,120	126	544	350	172	152	120	103
3	62	1,340	406	395	845	134	399	292	143	145	100	78
4	50	712	377	1,280	535	147	971	252	122	143	88	62
5	113	492	374	810	406	210	1,090	201	492	126	79	54
6	129	339	901	468	330	225	626	178	304	103	68	50
7	91	625	702	356	277	215	429	166	388	90	62	47
8	62	1,690	1,930	280	240	183	501	201	268	79	60	42
9	46	930	2,090	236	190	160	588	203	174	73	60	40
10	34	640	1,210	200	170	183	579	164	140	58	60	43
11	28	588	790	170	150	280	626	147	120	130	57	44
12	25	436	570	150	140	257	707	126	120	70	61	39
13	24	740	1,040	125	130	183	678	119	711	60	95	34
14	24	2,900	750	105	155	216	440	112	249	75	174	38
15	22	1,410	540	92	519	931	336	106	150	239	178	37
16	20	835	400	84	464	635	283	100	162	125	106	34
17	19	588	310	86	367	1,920	584	100	286	92	82	30
18	18	452	283	93	292	1,130	3,440	100	635	64	91	33
19	18	429	270	120	196	880	1,870	100	336	54	73	30
20	16	975	960	141	183	702	1,080	147	2,220	62	255	32
21	15	635	870	130	166	406	683	117	880	3,270	136	29
22	14	509	702	187	149	304	513	100	505	1,200	82	29
23	16	414	518	418	135	252	931	96	286	654	61	60
24	17	350	414	330	130	225	1,060	109	205	1,090	60	68
25	17	317	336	236	126	246	674	339	215	1,190	57	53
26	14	350	310	210	126	1,110	539	330	150	960	53	40
27	15	360	290	402	123	810	1,250	250	954	544	47	34
28	18	381	270	410	120	497	1,500	240	1,290	299	43	30
29	17	346	263	535	------	786	765	250	664	201	40	32
30	20	370	277	370	------	1,510	501	263	363	154	38	33
31	30	------	1,340	271	------	880	------	336	------	136	504	------
TOTAL	1,325	22,932	20,196	10,092	8,235	15,865	24,933	5,993	12,997	11,979	3,130	1,460
MEAN	42.7	764	651	326	294	512	831	193	433	386	101	48.7
MAX	228	2,900	2,090	1,280	1,120	1,920	3,440	399	2,220	3,270	504	178
MIN	14	317	263	84	120	122	283	96	120	54	38	29
CFSM	.18	3.20	2.72	1.36	1.23	2.14	3.48	.81	1.81	1.62	.42	.20
IN.	.21	3.57	3.14	1.57	1.28	2.47	3.88	.93	2.02	1.86	.49	.23

CAL YR 1972 TOTAL 116,713.9 MEAN 319 MAX 2,900 MIN 2.2 CFSM 1.33 IN 18.17
WTR YR 1973 TOTAL 139,137.0 MEAN 381 MAX 3,440 MIN 14 CFSM 1.59 IN 21.66

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1600	11.77	3,110	12-8	1600	12.77	4,160	6-20	0700	11.98	3,320
11-14	0500	13.29	4,810	4-18	1200	13.08	4,540	7-21	0900	14.10	5,940

03244000 Todd Fork near Roachester, Ohio

LOCATION.--Lat 39°20'07", long 84°05'12", Warren County, on right bank at downstream side of bridge on State Highway 123, 0.3 mi (0.5 km) downstream from Lick Run, 1.6 mi (2.6 km) southeast of Roachester, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--219 mi² (567 km²).

PERIOD OF RECORD.--September 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 679.40 ft (207.081 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 217 ft³/s (6.145 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,640 ft³/s (188 m³/s) Apr. 18, gage height, 13.64 ft (4.157 m); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 28, 29.

Period of record: Maximum discharge, 25,500 ft³/s (722 m³/s) Jan. 21, 1959, gage height, 19.50 ft (5.944 m), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of contracted-opening measurement of peak flow; no flow for all or part of each day Sept. 1, 2, 1953, Sept. 6-17, 1964.

REMARKS.--Records good except those for period of no gage height record, which are fair. Some regulation by Cowan Lake on Cowan Creek, 17.2 mi (27.7 km) upstream, capacity, 12,000 acre-ft (14.8 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1435: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	1,100	391	670	450	76	636	303	391	224	116	71
2	136	1,960	492	400	1,200	86	421	248	248	170	100	36
3	72	1,490	427	552	640	98	319	229	185	134	88	26
4	50	523	412	1,730	460	120	1,540	195	155	114	71	21
5	380	294	397	564	340	210	1,060	161	352	125	60	17
6	420	202	1,100	382	250	190	520	143	367	92	50	50
7	219	810	580	298	220	150	358	133	442	72	43	35
8	131	2,180	2,840	240	190	130	665	133	255	60	38	21
9	80	695	2,340	200	160	110	680	127	183	52	34	17
10	53	407	815	180	140	120	405	115	145	47	31	15
11	39	410	488	150	130	130	612	102	121	71	31	15
12	30	299	391	130	120	186	604	91	424	53	31	12
13	29	705	1,030	110	110	92	632	82	480	40	29	11
14	27	3,970	540	94	110	122	394	77	221	34	34	12
15	24	1,060	400	84	520	352	293	75	142	149	59	11
16	21	512	330	76	430	1,120	240	69	144	95	38	9.5
17	19	352	290	70	320	2,700	875	69	705	56	30	8.2
18	17	280	270	77	250	1,090	3,420	66	600	40	25	7.2
19	17	316	290	90	200	795	2,300	63	950	32	25	6.8
20	15	880	1,190	87	150	468	1,220	231	2,160	28	96	6.8
21	12	460	780	68	120	331	580	167	580	2,700	109	6.5
22	11	349	556	136	100	248	382	119	361	934	50	6.5
23	11	313	418	280	94	205	3,210	96	258	636	32	6.8
24	10	285	358	193	86	177	1,850	86	183	1,990	25	7.9
25	13	322	325	140	76	215	695	91	193	1,840	25	7.5
26	14	355	340	125	80	1,410	454	612	129	640	27	5.5
27	14	382	358	200	82	615	1,610	303	1,590	439	21	4.6
28	16	361	308	580	78	373	1,910	400	1,340	265	18	4.1
29	25	391	290	470	------	580	652	319	586	177	16	4.1
30	24	376	298	340	------	1,410	400	576	334	133	22	4.6
31	26	------	1,430	240	------	690	------	910	------	110	240	------
TOTAL	2,227	22,039	20,474	8,956	7,106	14,520	29,437	6,391	14,229	11,602	1,614	466.6
MEAN	71.8	735	660	289	254	468	981	206	474	374	52.1	15.6
MAX	420	3,970	2,840	1,730	1,200	2,700	3,420	910	2,160	2,700	240	71
MIN	10	202	270	68	76	76	240	63	121	28	16	4.1

CAL YR 1972 TOTAL 116,803.14 MEAN 319 MAX 4,090 MIN .60
WTR YR 1973 TOTAL 139,061.60 MEAN 381 MAX 3,970 MIN 4.1

PEAK DISCHARGE (BASE, 4,300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0415	13.30	6,160	4-23	1300	12.73	5,390
12-8	1930	13.43	6,340	6-27	2000	12.36	4,910
3-16	2345	12.56	5,170	7-24	2030	12.12	4,600
4-18	1645	13.64	6,640				

Note: No gage height record Jan. 27 to Mar. 12.

03245500 Little Miami River at Milford, Ohio

LOCATION.--Lat 39°10'17", long 84°17'53", Clermont County, on right bank 500 ft (152 m) downstream from Wooster Pike Bridge on U.S. Highway 50 in Milford, 1.2 mi (1.9 km) upstream from East Fork, and 6.4 mi (10.3 km) downstream from North Branch Creek.

DRAINAGE AREA.--1,203 mi^2 (3,116 km^2).

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), March 1925 to September 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Miamiville" 1915-20.

GAGE.--Water-stage recorder. Datum of gage is 499.35 ft (152.202 m) above mean sea level, adjustment of 1912. June 22, 1915, to May 14, 1920, nonrecording gage at site 4 mi (6 km) upstream at different datum. Mar. 11, 1925, to Aug. 16, 1928, nonrecording gage at bridge 500 ft (152 m) upstream at datum 0.72 ft (0.219 m) higher.

AVERAGE DISCHARGE.--48 years, (1915-17, 1925-36, 1938-73), 1,212 ft^3/s (34.32 m^3/s), 13.68 in/yr (347.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,600 ft^3/s (668 m^3/s) Dec. 8, gage height, 9.66 ft (2.944 m); minimum, 201 ft^3/s (5.69 m^3/s) Oct. 26, 27.

Period of record: Maximum discharge, 84,100 ft^3/s (2,380 m^3/s) Jan. 22, 1959, gage height, 22.30 ft (6.797 m), from rating curve extended above 60,000 ft^3/s (1,700 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 27 ft^3/s (0.76 m^3/s) Sept. 18, 1954.

Flood in March 1913 reached a stage of 25.5 ft (7.77 m), present datum, from information by Corps of Engineers.

REMARKS.--Records good. Some regulation since 1948 by Cowan Lake, capacity, 12,000 acre-ft (14.8 hm^3), 45 mi (72 km) upstream on Cowan Creek, tributary to Todd Fork. Annual figures of runoff are considered to be within 10 percent of natural yield. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 728: 1931. WSP 743: 1932. WSP 873: 1925-36. WSP 1908: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.520	3.420	1.840	5.370	1.680	652	4.700	2.190	1.970	2.440	1.310	1.020
2	964	7.990	2.280	2.930	4.670	645	3.260	1.910	1.730	1.590	1.010	568
3	598	7.230	2.060	2.520	4.310	679	2.520	1.790	1.580	1.230	950	434
4	598	3.420	1.950	8.040	2.870	750	5.790	1.660	2.140	2.140	743	375
5	758	2.170	1.940	4.150	2.180	1.440	6.010	1.490	7.170	1.950	665	330
6	1.230	1.520	3.630	2.690	1.820	1.640	3.490	1.220	16.400	1.500	592	375
7	803	2.570	3.730	1.950	1.580	1.250	2.560	1.120	14.000	1.090	538	390
8	580	8.260	11.000	1.500	1.520	1.210	2.950	1.160	8.140	854	487	321
9	455	4.400	13.500	1.200	1.460	991	3.230	1.450	4.750	729	465	304
10	375	2.790	5.430	1.000	1.220	1.040	4.310	1.190	3.360	659	481	296
11	325	2.580	3.540	840	1.090	1.510	3.600	1.050	2.700	1.400	492	293
12	308	2.200	2.560	720	981	1.870	2.990	923	2.440	941	509	270
13	281	2.870	4.740	750	956	1.330	3.420	834	3.650	834	645	259
14	285	17.500	3.680	800	1.130	1.220	2.760	773	3.520	550	611	259
15	312	7.450	2.500	819	2.870	4.330	2.170	743	2.700	939	923	284
16	281	4.200	2.000	773	2.360	4.690	1.840	707	2.040	1.270	750	252
17	259	2.720	1.500	722	1.390	15.900	3.830	692	5.020	758	562	238
18	241	2.130	1.400	736	1.120	7.080	13.600	664	6.570	586	476	228
19	234	1.950	1.500	765	1.110	4.650	11.400	685	3.010	504	434	226
20	228	4.310	5.270	850	1.010	3.290	6.270	1.480	10.900	470	1.570	221
21	214	3.110	4.760	750	948	2.450	3.720	1.180	6.730	17.800	1.400	214
22	204	2.250	3.490	1.170	866	2.020	2.710	867	3.840	9.460	722	217
23	204	1.910	2.750	2.380	803	1.690	8.390	780	2.800	4.330	521	241
24	204	1.630	2.230	1.950	758	1.470	6.810	650	2.250	7.810	449	308
25	214	1.500	1.940	1.390	700	1.560	3.520	1.040	2.130	8.630	429	277
26	204	1.580	1.820	1.170	686	6.200	2.720	2.360	2.080	4.630	439	245
27	204	1.800	1.990	1.700	693	4.690	4.270	1.840	4.450	3.260	404	224
28	217	1.770	1.710	2.200	679	3.100	8.450	2.190	6.440	2.160	366	214
29	217	1.950	1.540	3.460	------	3.520	4.020	1.730	3.630	1.530	343	214
30	228	1.810	1.470	2.080	------	7.940	2.690	1.440	2.430	1.200	564	217
31	234	------	6.430	1.600	------	4.830	------	1.280	------	1.480	1.140	------
TOTAL	12.980	110.990	106.180	58.975	43.460	95.627	138.000	38.998	140.590	84.612	20.870	9.317
MEAN	419	3.700	3.425	1.902	1.552	3.085	4.600	1.258	4.686	2.729	673	311
MAX	1.520	17.500	13.500	8.040	4.670	15.900	13.600	2.360	16.400	17.800	1.570	1.020
MIN	204	1.500	1.400	720	679	645	1.840	650	1.580	470	343	214
CFSM	.35	3.08	2.85	1.58	1.29	2.56	3.82	1.05	3.90	2.27	.56	.26
IN.	.40	3.43	3.28	1.82	1.34	2.96	4.27	1.21	4.35	2.62	.65	.29

CAL YR 1972 TOTAL 635.736 MEAN 1.737 MAX 17.500 MIN 119 CFSM 1.44 IN 19.66
WTR YR 1973 TOTAL 860.599 MEAN 2.358 MAX 17.800 MIN 204 CFSM 1.96 IN 26.61

PEAK DISCHARGE (BASE, 15,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0800	9.30	22,600	4-18	1800	9.02	21,600	7-21	2100	9.38	22,800
12-8	2300	9.66	23,600	6-6	1500	7.94	17,100	7-24	2000	8.57	19,800
3-17	0500	8,99	21,500	6-20	1200	8.50	19,500				

03246200 East Fork Little Miami River near Marathon, Ohio

LOCATION.--Lat 39°06'52", long 84°01'29", Clermont County, on right bank at downstream side of bridge on Blue Sky Park Road, 500 ft (152 m) upstream from Fivemile Creek, 1.0 mi (1.6 km) downstream from Sixmile Creek, and 2.3 mi (3.7 km) southwest of Marathon.

DRAINAGE AREA.--195 mi^2 (505 km^2).

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 842.32 ft (256.739 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 222 ft^3/s (6.287 m^3/s), 15.46 in/yr (392.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,150 ft^3/s (174 m^3/s) Dec. 9, gage height, 14.45 ft (4.404 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Sept. 28.

Period of record: Maximum discharge, 11,400 ft^3/s (323 m^3/s) Apr. 2, 1970, gage height, 18.57 ft (5.660 m) in gage well, about 19.8 ft (6.04 m) outside; minimum, 0.50 ft^3/s (1.42 m^3/s) Oct. 15, 16, 17, 1969.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	2,380	228	765	213	65	680	154	193	180	83	11
2	111	2,690	274	247	1,270	65	301	126	106	114	100	11
3	55	2,080	194	304	730	76	241	136	79	83	79	9.6
4	43	371	160	2,300	331	106	1,820	154	91	334	57	11
5	890	208	200	492	215	235	1,180	103	376	268	42	10
6	462	149	1,430	235	170	286	340	80	205	124	33	10
7	149	1,060	745	140	152	152	262	68	280	57	28	24
8	90	3,300	2,630	110	164	146	1,730	70	138	39	24	21
9	61	528	4,610	90	185	107	835	103	82	30	22	16
10	43	282	865	70	124	91	1,120	91	61	41	19	13
11	30	532	392	54	98	83	660	158	51	277	18	10
12	25	285	232	48	67	83	440	120	94	103	19	7.9
13	23	724	1,250	44	65	73	523	67	469	47	132	6.0
14	21	5,110	550	42	262	65	235	54	235	54	795	6.7
15	22	1,010	344	40	1,320	334	160	48	91	128	478	6.0
16	21	313	432	40	541	1,360	130	45	364	65	110	5.6
17	26	200	247	44	170	3,960	213	42	830	32	54	4.5
18	26	155	178	53	152	1,250	1,710	41	244	23	37	4.1
19	24	220	130	60	110	715	2,270	54	112	17	27	3.7
20	29	1,240	1,310	71	97	328	1,170	825	319	18	146	3.4
21	29	444	995	60	98	235	325	238	595	3,140	142	3.0
22	26	225	559	96	91	156	190	112	368	1,790	70	3.0
23	26	172	331	356	79	118	2,270	80	118	313	36	4.9
24	27	138	226	256	68	100	1,900	65	73	1,280	23	4.9
25	28	119	188	156	61	144	532	59	53	2,570	19	4.5
26	28	149	185	132	61	1,400	537	79	43	424	16	3.7
27	29	274	286	337	73	469	1,660	223	283	215	22	3.4
28	34	256	180	496	73	210	2,190	800	1,090	128	25	2.6
29	32	337	154	795	------	268	400	412	340	85	15	3.0
30	30	238	166	244	------	1,140	210	250	142	63	12	6.0
31	32	------	955	160	------	519	------	424	------	60	11	------
TOTAL	2,782	25,189	20,626	8,337	7,040	14,339	26,234	5,281	7,525	12,102	2,694	233.5
MEAN	89.7	840	665	269	251	463	874	170	251	390	86.9	7.78
MAX	890	5,110	4,610	2,300	1,320	3,960	2,270	825	1,090	3,140	795	24
MIN	21	119	130	40	61	65	130	41	43	17	11	2.6
CFSM	.46	4.31	3.41	1.38	1.29	2.37	4.48	.87	1.29	2.00	.45	.04
IN.	.53	4.81	3.93	1.59	1.34	2.74	5.00	1.01	1.44	2.31	.51	.04

CAL YR 1972 TOTAL 120,503.7 MEAN 329 MAX 6,200 MIN 2.2 CFSM 1.69 IN 22.99
WTR YR 1973 TOTAL 132,382.5 MEAN 363 MAX 5,110 MIN 2.6 CFSM 1.86 IN 25.25

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-1	1830	12.35	3,960	1-4	0930	11.64	3,450	4-23	1930	13.00	4,700
11-3	0130	12.12	3,780	3-17	0630	13.54	5,240	4-27	2400	12.34	4,040
11-8	0730	12.93	4,430	4-4	2030	11.22	3,120	7-21	1200	13.38	5,080
11-14	1500	13.85	5,550	4-18	2100	11.51	3,350	7-25	0100	12.54	4,240
12-9	0330	14.45	6,150								

03246500 East Fork Little Miami River at Williamsburg, Ohio

LOCATION.--Lat 39°03'09", long 84°03'02", Clermont County, on right bank at downstream side of Main Street Bridge in Williamsburg, 1.1 mi (1.8 km) upstream from Todd Run, and 2.4 mi (3.9 km) downstream from Crane Run.

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--March 1949 to September 1953, July 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 784.09 ft (238.991 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 270 ft³/s (7.646 m³/s), 15.47 in/yr (392.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,630 ft³/s (244 m³/s) Dec. 8, gage height, 10.06 ft (3.066 m); minimum, 3.0 ft³/s (0.085 m³/s) Sept. 29.

Period of record: Maximum discharge, 19,800 ft³/s (561 m³/s) Mar. 10, 1964, gage height, 15.23 ft (4.642 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of contracted-opening measurement of peak flow; no flow for many days in 1951, 1953, 1963-65.

Flood in January 1959 reached a stage of 12.2 ft (3.72 m), from information by local resident, discharge, 14,000 ft³/s (396 m³/s).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	3.450	296	987	218	74	792	185	275	225	99	13
2	149	4.120	323	304	1.270	72	374	150	130	141	96	11
3	81	3.080	260	326	899	80	293	153	89	64	80	9.9
4	123	575	242	3.400	395	116	2.180	181	96	323	59	8.6
5	914	289	256	1.000	253	267	1.590	124	412	300	42	8.8
6	850	198	1.440	400	198	342	426	92	275	124	34	11
7	203	1.430	1.220	250	171	188	323	76	311	49	28	9.3
8	118	4.840	3.670	150	188	171	2.060	78	185	29	24	21
9	82	845	6.940	100	215	135	1.050	101	96	21	21	21
10	63	417	1.090	77	145	119	1.220	108	67	17	20	17
11	50	730	496	65	110	106	752	138	53	212	18	15
12	41	426	278	58	48	101	453	156	44	111	36	13
13	37	1.010	1.240	52	80	87	569	78	472	39	282	11
14	33	7.000	685	50	289	85	278	59	275	27	1.050	8.8
15	31	1.480	404	54	1.460	358	188	52	116	119	616	7.9
16	31	430	496	54	685	1.640	147	47	330	61	153	7.5
17	30	267	239	54	249	5.760	225	44	1.210	28	55	6.6
18	36	205	215	56	212	1.480	1.900	43	311	15	42	5.7
19	35	293	165	60	135	792	2.920	49	111	11	43	5.3
20	34	1.440	1.280	70	111	404	1.450	758	293	11	575	4.8
21	40	621	1.130	70	116	338	399	323	804	3.780	232	4.4
22	40	300	610	150	108	209	228	144	439	2.780	96	4.0
23	39	225	386	330	94	156	3.070	92	119	444	47	13
24	38	178	267	308	80	127	2.750	70	59	1.500	30	9.3
25	39	150	221	181	72	171	654	64	40	3.670	23	5.7
26	40	178	215	150	69	1.600	626	65	30	564	19	4.2
27	42	330	319	300	78	616	2.040	267	342	274	18	3.8
28	52	342	225	554	83	267	3.100	893	1.180	150	27	3.7
29	53	439	188	906	------	289	500	525	385	92	21	3.5
30	48	323	191	315	------	1.310	256	323	138	64	30	4.0
31	53	------	949	188	------	631	------	486	------	59	21	------
TOTAL	3.890	35.611	25.936	11.019	8.071	18.090	32.817	5.924	8.688	15.304	3.947	272.0
MEAN	125	1.187	837	355	288	584	1.094	191	290	494	127	9.07
MAX	914	7.000	6.940	3.400	1.460	5.760	3.100	893	1.210	3.780	1.050	21
MIN	30	150	165	50	69	72	147	43	30	11	18	3.5
CFSM	.53	5.01	3.53	1.50	1.22	2.46	4.62	.81	1.22	2.08	.54	.04
IN.	.61	5.59	4.07	1.73	1.27	2.84	5.15	.93	1.36	2.40	.62	.04

CAL YR 1972 TOTAL 160.515.0 MEAN 439 MAX 7.320 MIN 1.3 CFSM 1.85 IN 25.19
WTR YR 1973 TOTAL 169.573.0 MEAN 465 MAX 7.000 MIN 3.5 CFSM 1.96 IN 26.62

PEAK DISCHARGE (BASE, 4,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-1	1930	8.10	5,560	12-8	2200	10.06	8,630	4-28	0030	7.89	5,270
11-3	0100	7.73	5,040	3-17	0330	9.09	7,040	7-21	2300	8.81	6,620
11-8	0630	8.45	6,080	4-23	1800	8.69	6,440	7-25	0200	8.04	5,480
11-14	0730	9.37	7,460								

03247050 East Fork Little Miami River near Batavia, Ohio

LOCATION.--Lat 39°03'36", long 84°10'32", Clermont County, on right bank on Elk Lick Road, 230 ft (70 m) upstream from unnamed right bank tributary, 1,400 ft (427 m) upstream from Lucy Run, and 1.3 mi (2.1 km) south of Batavia.

DRAINAGE AREA.--352 mi² (912 km²), includes that of unnamed tributary.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 571.68 ft (174.248 m) above mean sea level. Prior to July 17, 1968, nonrecording gage 1,100 ft (335 m) downstream at same datum.

AVERAGE DISCHARGE.--8 years, 385 ft³/s (10.90 m³/s), 14.85 in/yr (377.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,400 ft³/s (379 m³/s) Dec. 8, gage height, 15.85 ft (4.831 m); minimum, 2.2 ft³/s (0.062 m³/s) Sept. 22, 23, 30.

Period of record: Maximum discharge, 28,700 ft³/s (813 m³/s) Apr. 2, 1970, gage height, 20.31 ft (6.190 m); minimum, 0.14 ft³/s (0.004 m³/s) Sept. 23, 27, 1967.

Flood in March 1964 reached a stage of 21.46 ft (6.541 m), from information by local resident, discharge, about 32,000 ft³/s (906 m³/s), from flood study.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	5,260	513	1,330	275	114	1,040	388	497	424	185	87
2	380	5,740	507	480	1,290	107	647	304	270	395	138	30
3	191	3,890	454	437	1,230	116	500	486	196	184	110	15
4	262	912	422	3,760	588	152	3,220	367	158	301	80	8.9
5	692	496	515	1,010	375	428	2,360	257	540	675	58	7.4
6	1,450	334	1,620	454	280	521	706	191	524	324	39	215
7	436	2,420	1,810	268	232	336	509	161	440	163	28	58
8	252	5,890	5,830	184	258	310	3,260	167	376	91	21	21
9	169	1,320	8,010	150	309	226	1,610	254	216	60	16	21
10	123	649	1,640	120	229	217	1,540	216	153	45	13	82
11	96	1,010	701	100	174	195	1,010	399	119	39	11	43
12	79	721	427	86	142	188	651	317	103	240	25	22
13	67	1,440	1,430	78	120	146	675	187	321	126	508	13
14	57	8,210	1,020	74	499	133	467	136	413	65	994	20
15	53	2,690	574	78	1,920	406	317	115	269	74	880	9.8
16	47	713	735	79	986	2,310	256	103	302	172	291	6.5
17	47	457	446	82	435	7,300	331	99	1,910	90	115	4.7
18	44	342	246	85	277	2,200	2,120	91	782	46	60	4.6
19	45	404	228	96	220	1,060	4,380	93	305	27	44	5.1
20	50	1,900	1,410	105	190	675	2,170	517	950	21	1,710	4.2
21	46	1,030	1,460	104	188	827	679	592	1,980	1,760	617	3.4
22	48	525	753	193	163	453	416	257	876	3,820	205	3.1
23	56	386	532	437	151	316	4,600	179	353	767	99	11
24	54	299	363	464	128	253	3,850	140	200	947	57	16
25	50	250	277	269	115	339	1,090	124	135	4,200	37	14
26	48	288	255	202	109	2,150	927	440	100	928	27	6.3
27	48	520	376	375	111	1,040	2,890	1,180	1,050	397	21	4.0
28	55	553	321	665	117	504	4,250	1,600	1,770	228	16	3.6
29	73	715	230	1,090	------	441	848	873	733	138	16	3.5
30	72	596	222	530	------	1,910	464	580	369	90	74	3.5
31	67	------	1,240	281	------	960	------	656	------	93	370	------
TOTAL	5,813	49,960	34,567	13,666	11,111	26,332	47,783	11,469	16,410	17,018	6,865	746.6
MEAN	188	1,665	1,115	441	397	849	1,593	370	547	549	221	24.9
MAX	1,450	8,210	8,010	3,760	1,920	7,300	4,600	1,600	1,980	4,200	1,710	215
MIN	44	250	222	74	109	107	256	91	100	21	11	3.1
CFSM	.52	4.64	3.11	1.23	1.11	2.36	4.53	1.03	1.52	1.53	.62	.07
IN.	.60	5.18	3.58	1.42	1.15	2.73	4.95	1.19	1.70	1.76	.71	.08

CAL YR 1972 TOTAL 214,741.4 MEAN 587 MAX 8,210 MIN 1.3 CFSM 1.64 IN 22.25
WTR YR 1973 TOTAL 241,740.6 MEAN 662 MAX 8,210 MIN 3.1 CFSM 1.84 IN 25.05

PEAK DISCHARGE (BASE, 7,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-1	1300	14.14	8,700	11-14	0230	14.63	9,920	3-17	0130	14.24	8,950
11-7	2330	13.61	7,620	12-8	2130	15.85	13,400	4-23	1830	15.00	10,800

03247400 Shayler Run near Perintown, Ohio

LOCATION.--Lat 39°06'46", long 84°13'24", Clermont County, on left bank 0.7 mi (1.1 km) upstream from Norfolk and Western railroad bridge, 1.9 mi (3.1 km) southeast of Perintown, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--11.8 mi² (30.6 km²).

PERIOD OF RECORD.--August 1968 to September 1973 (discontinued).

GAGE.--Water-stage recorder and V-notch weir. Altitude of gage is 575 ft (175 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 14.1 ft³/s (0.399 m³/s), 16.23 in/yr (412.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,020 ft³/s (28.9 m³/s) July 24, gage height, 5.42 ft (1.652 m), from rating curve extended above 240 ft³/s (6.80 m³/s) on basis of slope-area measurement at gage height 6.6 ft (2.01 m); minimum, 0.81 ft³/s (0.023 m³/s) Oct. 22.

Period of record: Maximum discharge, 2,400 ft³/s (68.0 m³/s) Apr. 2, 1970, gage height, 7.40 ft (2.256 m), from rating curve extended above 240 ft³/s (6.80 m³/s) on basis of slope-area measurement at gage height 6.6 ft (2.01 m); minimum discharge, 0.36 ft³/s (0.010 m³/s) Sept. 22, 1969.

REMARKS.--Records fair. Records include discharge from sewage treatment plant 2.8 mi (4.5 km) upstream from station. Plant discharge includes about 0.4 mil gal (1,514 m³) day of water imported into basin from wells near the Ohio River. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 2108: 1968, 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	160	16	39	30	5.8	43	15	13	27	41	2.1
2	3.6	123	15	21	71	5.5	33	13	8.6	11	14	2.1
3	2.4	37	10	91	39	7.1	24	12	6.2	14	8.6	2.1
4	13	14	19	86	21	10	117	9.2	5.6	80	6.6	2.5
5	9.0	7.4	17	35	18	43	49	7.6	7.6	35	4.5	2.7
6	4.8	5.8	89	17	14	20	29	6.6	7.6	12	3.2	1.7
7	3.1	104	27	11	12	30	26	5.8	8.1	6.6	2.7	1.9
8	2.4	76	313	8.2	18	21	99	6.2	4.2	4.4	2.4	1.7
9	1.9	19	95	6.2	14	15	63	8.1	3.0	3.5	2.2	2.6
10	1.7	15	47	5.1	11	14	60	9.8	2.5	3.3	2.0	2.6
11	1.6	23	25	4.5	8.6	14	41	8.6	2.4	3.2	2.0	2.0
12	1.6	11	24	4.1	7.7	13	25	5.2	39	3.0	5.8	1.5
13	1.6	141	83	3.7	7.6	10	18	3.7	28	2.4	79	8.6
14	1.5	134	37	4.0	47	19	14	3.3	8.6	2.3	110	36
15	1.3	28	37	4.4	66	48	12	3.3	4.6	2.9	25	6.2
16	1.5	15	27	5.0	29	168	10	3.2	19	2.4	12	3.8
17	1.6	11	14	5.5	18	161	36	2.9	86	1.9	9.2	2.9
18	1.5	9.0	13	5.8	12	65	102	2.7	20	1.6	7.1	2.3
19	1.5	34	21	7.1	9.6	43	114	7.4	11	1.7	5.8	2.0
20	1.3	79	95	6.2	8.2	41	61	20	52	2.1	21	1.9
21	1.2	25	51	5.5	7.4	53	33	7.1	84	52	8.1	1.7
22	1.2	15	31	37	6.8	25	19	4.5	20	57	5.5	1.6
23	1.3	11	21	37	6.4	18	140	4.0	12	12	3.7	6.6
24	1.4	7.9	17	18	6.0	14	61	3.4	6.6	159	3.1	2.9
25	1.2	7.4	13	12	5.6	54	47	3.3	5.2	75	3.0	2.1
26	1.2	10	18	10	6.0	101	37	8.1	6.2	47	2.7	2.0
27	1.2	14	19	47	6.6	41	122	43	71	23	2.4	1.7
28	1.9	15	16	45	6.6	22	72	43	43	10	2.0	1.6
29	1.7	19	14	49	------	48	31	25	13	6.6	1.9	3.4
30	1.6	17	12	20	------	63	19	29	8.1	4.7	20	2.8
31	2.2	------	104	15	------	60	------	27	------	65	6.6	------
TOTAL	79.4	1,187.5	1,340	665.3	513.1	1,252.4	1,557	351.0	606.1	731.6	423.1	115.6
MEAN	2.56	39.6	43.2	21.5	18.3	40.4	51.9	11.3	20.2	23.6	13.6	3.85
MAX	13	160	313	91	71	168	140	43	86	159	110	36
MIN	1.2	5.8	10	3.7	5.6	5.5	10	2.7	2.4	1.6	1.9	1.5
CFSM	.22	3.36	3.66	1.82	1.55	3.42	4.40	.96	1.71	2.00	1.15	.33
IN.	.25	3.74	4.22	2.10	1.62	3.95	4.91	1.11	1.91	2.31	1.33	.36

CAL YR 1972 TOTAL 6,884.93 MEAN 18.8 MAX 313 MIN .54 CFSM 1.59 IN 21.71
WTR YR 1973 TOTAL 8,822.10 MEAN 24.2 MAX 313 MIN 1.2 CFSM 2.05 IN 27.81

PEAK DISCHARGE (BASE, 250 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-1	0430	3.11	279	12-31	0830	2.95	262	6-12	1800	2.92	258
11-2	1430	3.26	302	1-3	2030	4.25	545	6-27	1800	3.28	326
11-7	1630	3.72	384	3-16	2000	4.47	611	7-21	2200	2.88	252
11-13	2030	4.34	552	3-25	2330	3.50	370	7-24	1530	5.42	1,020
12-6	0830	3.04	270	4-19	0930	2.95	262	7-31	1600	3.09	288
12-8	1500	4.74	706	4-23	1330	3.53	376	8-13	0800	3.09	288
								8-14	0800	3.09	288

03247500 East Fork Little Miami River at Perintown, Ohio

LOCATION.--Lat 39°08'13", long 84°14'17", Clermont County, on left bank at downstream side of highway bridge at Perintown, 0.2 mi (0.3 km) downstream from Sugarcamp Run, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--476 mi² (1,233 km²).

PERIOD OF RECORD.--May 1915 to September 1917, October 1917 to May 1920 (gage heights only), January 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 507.03 ft (154.543 m) above mean sea level. Prior to Feb. 6, 1940, nonrecording gage, at same site and datum.

AVERAGE DISCHARGE.--50 years (1915-17, 1925-73), 538 ft³/s (15.24 m³/s), 15.35 in/yr (389.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,400 ft³/s (436 m³/s) Dec. 8, gage height, 16.58 ft (5.054 m); minimum, 22 ft³/s (0.62 m³/s) Sept. 28, 29.

Period of record: Maximum discharge, 42,400 ft³/s (1,200 m³/s) Mar. 10, 1964, gage height, 23.84 ft (7.266 m); minimum, 0.3 ft³/s (0.008 m³/s) July 24, 1930; minimum gage height, -0.18 ft (-0.055 m) Oct. 3-7, 1917.

REMARKS.--Records good. Occasional regulation by Stonelick Lake on Stonelick Creek 14 mi (23 km) upstream. Surface area at spillway level, 171 acres (69 hm²). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 873: 1938. WSP 973: 1933(M). WSP 1908: Drainage area.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	511	6.130	619	2.060	438	173	1.530	468	586	457	351	136
2	357	7.100	615	741	1.960	166	895	373	294	527	223	67
3	169	4.900	512	967	1.840	175	651	496	205	257	157	47
4	258	1.220	453	4.970	840	222	3.970	429	169	753	127	39
5	761	543	576	1.620	508	590	3.200	306	440	952	100	35
6	1.320	331	2.300	663	373	770	1.000	237	599	432	77	140
7	424	2.610	2.300	370	310	483	610	205	599	233	65	99
8	220	7.150	7.660	230	346	431	3.900	202	414	144	56	49
9	143	1.940	9.640	190	403	314	2.350	273	227	107	51	44
10	99	773	2.560	160	306	290	2.190	240	158	91	46	67
11	72	1.210	1.090	140	226	270	1.480	410	129	116	45	65
12	58	909	642	130	192	265	900	335	256	250	45	47
13	48	2.060	2.230	130	180	216	835	227	312	172	628	41
14	41	9.640	1.630	140	624	216	601	169	414	136	1.680	154
15	35	3.570	852	146	2.850	752	390	148	275	143	1.130	60
16	32	923	1.080	141	1.520	3.100	312	133	380	198	392	43
17	30	529	527	143	578	9.400	476	127	2.100	136	181	34
18	28	376	339	148	347	3.290	2.960	118	1.100	89	111	31
19	27	483	357	161	307	1.550	5.550	202	440	69	213	29
20	27	2.610	2.110	164	275	920	3.010	801	1.540	62	2.660	28
21	26	1.450	2.260	161	266	1.120	974	820	2.240	3.950	961	27
22	25	640	1.170	299	241	598	534	303	1.150	5.080	294	25
23	28	429	778	664	219	393	4.920	207	436	1.050	161	36
24	30	329	525	646	193	318	5.100	169	232	2.440	101	42
25	29	274	402	375	179	488	1.500	146	162	5.070	73	35
26	27	305	381	280	173	3.110	1.290	402	129	1.340	58	28
27	27	584	520	566	174	1.580	3.670	1.140	1.210	556	52	26
28	30	650	475	989	175	660	5.360	2.020	2.590	312	46	23
29	37	873	346	1.670	------	642	1.260	1.150	997	198	43	25
30	41	726	321	791	------	2.550	604	710	448	142	120	32
31	41	------	2.280	397	------	1.500	------	825	------	295	411	------
TOTAL	5.101	61.267	47.550	20.252	16.043	36.532	62.022	13.791	20.232	25.757	10.658	1.567
MEAN	165	2.042	1.534	653	573	1.178	2.067	445	674	831	344	52.2
MAX	1.320	9.640	9.640	4.970	2.850	9.400	5.550	2.020	2.590	5.080	2.660	164
MIN	25	274	321	130	173	166	312	118	129	62	43	23
CFSM	.35	4.29	3.22	1.37	1.20	2.47	4.34	.93	1.42	1.75	.72	.11
IN.	.40	4.79	3.72	1.58	1.25	2.86	4.85	1.08	1.58	2.01	.83	.12

CAL YR 1972 TOTAL 286.106.9 MEAN 782 MAX 9.640 MIN 6.2 CFSM 1.64 IN 22.36
WTR YR 1973 TOTAL 320.762.0 MEAN 879 MAX 9.640 MIN 23 CFSM 1.85 IN 25.07

PEAK DISCHARGE (BASE, 10,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-1	1600	13.28	10,000	12-8	2230	16.58	15,400	4-23	2030	14.22	11,200
11-14	0430	14.87	12,200	3-17	0200	14.70	11,900	7-21	2130	14.36	11,400

03255500 Mill Creek at Reading, Ohio

LOCATION.--Lat 39°13'14", long 84°26'49", in sec.32, R.1, T.4, Hamilton County, on right bank at upstream side of Koehler Street Bridge at Reading, 1.0 mi (1.6 km) upstream from West Fork Mill Creek, and 13.0 mi (20.9 km) upstream from mouth.

DRAINAGE AREA.--73.0 mi² (189 km²).

PERIOD OF RECORD.--October 1938 to April 1939, June 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 527.00 ft (160.630 m) above mean sea level, Ohio River datum. Prior to Oct. 1. 1951, water-stage recorder or nonrecording gage at same site at datum 4.00 ft (1.219 m) higher. Oct. 1, 1951, to Apr. 25, 1954, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum discharge, 4,340 ft³/s (123 m³/s) July 21, gage height, 16.60 ft (5.060 m); minimum, 8.5 ft³/s (0.24 m³/s) Sept. 29.

Period of record: Maximum discharge, 5,780 ft³/s (164 m³/s) Mar. 6, 1945, gage height, 20.00 ft (6.096 m) present datum; no flow for days in 1940-41, 1944, 1951.

REMARKS.--Records good. Some diversion and ground water pumpage from Mill Creek and Great Miami River basin by industrial plants of the greater Cincinnati area upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	850	78	164	126	36	227	83	76	114	96	41
2	15	651	95	105	276	38	127	78	57	51	52	16
3	14	138	59	269	134	43	97	66	46	112	40	13
4	190	62	85	372	86	38	549	57	439	345	34	17
5	159	43	77	130	63	179	213	49	356	181	26	18
6	32	37	306	89	55	84	127	43	136	67	29	30
7	20	495	114	67	48	97	98	41	116	44	28	17
8	16	375	1,140	49	78	70	180	146	65	35	27	15
9	15	99	553	42	50	59	168	74	48	35	28	23
10	14	85	213	36	41	88	183	55	39	40	28	16
11	16	87	121	33	35	269	134	49	36	59	23	14
12	39	55	106	32	37	123	138	36	116	31	21	14
13	19	514	275	28	39	77	101	30	51	28	28	13
14	14	875	122	29	105	159	74	30	31	53	45	15
15	12	186	122	33	183	352	62	31	28	33	25	11
16	15	95	85	35	99	516	73	30	64	24	21	10
17	14	68	49	39	55	1,030	387	31	64	21	22	12
18	12	52	50	40	47	304	932	29	34	21	20	12
19	12	174	130	48	50	164	517	101	508	20	17	12
20	12	260	482	42	51	120	301	109	950	55	83	12
21	12	95	212	47	48	95	153	37	221	1,410	26	12
22	12	70	106	168	42	75	101	33	112	339	19	24
23	21	52	77	138	42	64	892	36	69	158	17	22
24	15	47	63	75	36	56	292	38	39	689	17	12
25	14	47	55	59	35	173	156	167	37	600	16	12
26	13	59	82	51	38	362	124	266	39	267	16	12
27	20	53	73	130	38	146	388	472	1,150	129	16	11
28	35	85	65	127	37	94	292	206	403	72	16	11
29	19	70	60	143	------	435	118	193	117	47	16	33
30	15	77	50	74	------	389	94	210	66	41	129	16
31	49	------	587	66	------	250	------	125	------	290	41	------
TOTAL	889	5,856	5,692	2,760	1,974	5,985	7,298	2,951	5,513	5,411	1,022	496
MEAN	28.7	195	184	89.0	70.5	193	243	95.2	184	175	33.0	16.5
MAX	190	875	1,140	372	276	1,030	932	472	1,150	1,410	129	41
MIN	12	37	49	28	35	36	62	29	28	20	16	10

CAL YR 1972 TOTAL 32,245.4 MEAN 88.1 MAX 1,190 MIN 9.2
WTR YR 1973 TOTAL 45,847.0 MEAN 126 MAX 1,410 MIN 10

PEAK DISCHARGE (BASE, 1,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-13	2230	10.93	2,080	4-23	1000	10.95	2,100	6-27	1500	13.63	3,140
12-08	1700	11.08	2,150	6-4	2200	10.42	1,890	7-21	0130	16.60	4,340
3-17	0130	10.20	1,800	6-19	2300	16.12	4,170	7-24	1600	10.05	1,720
4-18	1300	10.34	1,860								

03256500 West Fork Mill Creek Lake near Greenhills, Ohio

LOCATION.--Lat 39°15'34", long 84°29'41", in SE 1/4 sec.17, T.3, R.1, Hamilton County, in gate house of dam on West Fork Mill Creek, 1.2 mi (1.9 km) east of Greenhills.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--April 1953 to current year. Prior to October 1971, published as West Fork Mill Creek Reservoir near Greenhills, Ohio.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) above mean sea level, adjustment of 1912 (levels by Corps of Engineers); gage readings have been adjusted to elevations above mean sea level.

EXTREMES.--Current year: Maximum contents, 4,020 acre-ft (4.96 hm³) July 21, elevation, 685.07 ft (208.809 m); minimum, 966 acre-ft (1.19 hm³) Dec. 5, elevation, 671.87 ft (204.786 m).

Period of record: Maximum contents, 9,680 acre-ft (11.9 hm³) Jan. 22, 1959, elevation, 698.95 ft (213.040 m); minimum, 729 acre-ft (899,000 m³) Feb. 26, 1964, elevation, 670.00 ft (204.216 m).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway; operation for flood control began Dec. 20, 1952; storage to maintain conservation pool began Apr. 19, 1953. Usable capacity 11.310 acre-ft (13.9 hm³) between elevations 655.0 ft (199.64 m), lowest outlet, and 702.0 ft (213.97 m), crest of spillway, of which 1,470 acre-ft (1.81 hm³) is in conservation pool. Dead storage below elevation 655.0 ft (199.64 m), 65 acre-ft (80,100 m³). Figures given herein represent useable contents. Reservoir is used for flood control and recreation. There are no gates on spillway and all regulation is done by gates in conduit through dam.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Corps of Engineers.

REVISIONS.--WSP 1908: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	675.51	1,560	-
Oct. 31	675.83	1,620	+ 60
Nov. 30	675.26	1,520	-100
Dec. 31	672.51	1,070	-450
CAL YR 1972	-	-	+ 60
Jan. 31	673.61	1,230	+160
Feb. 28	675.07	1,480	+250
Mar. 31	675.47	1,560	+ 80
Apr. 30	675.09	1,480	- 80
May 31	675.20	1,500	+ 20
June 30	675.15	1,490	- 10
July 31	675.86	1,630	+140
Aug. 31	675.07	1,480	-150
Sept. 30	675.21	1,510	+ 30
WTR YR 1973	-	-	- 50

03257500 West Fork Mill Creek at Woodlawn, Ohio

LOCATION.--Lat 39°15'14", long 84°28'13", in NE 1/4 sec.10, R. 1, T.3, Hamilton County, on left bank at upstream side of Riddle Road Bridge in Woodlawn, 0.5 mi (0.8 km) upstream from small left bank tributary, 1.9 mi (3.1 km) downstream from West Fork Mill Creek Dam, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--32.2 mi² (83.4 km²).

PERIOD OF RECORD.--December 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 570.00 ft (173.736 m) above mean sea level, adjustment of 1912 (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--20 years (1953-73), 30.6 ft³/s (0.867 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,080 ft³/s (30.6 m³/s) June 28, gage height, 5.03 ft (1.533 m); minimum, 0.03 ft³/s (0.001 m³/s) Sept. 18, 21.

Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Apr 4, 1956, gage height, 6.82 ft (2.079 m); no flow for many days in most years.

REMARKS.--Records good. Flow regulated by West Fork Mill Creek Reservoir 1.9 mi (3.1 km) upstream beginning 1953 (see station 03256500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	364	157	62	35	7.2	55	17	20	22	100	.62
2	9.1	364	144	17	47	6.0	39	22	8.7	33	20	.53
3	.15	46	5.3	30	24	19	31	18	7.5	24	14	.53
4	28	16	12	206	30	35	162	7.5	15	32	12	.53
5	196	14	40	78	35	152	94	2.9	113	38	8.3	.62
6	20	10	101	18	30	35	31	3.4	29	25	8.7	.80
7	10	62	54	17	16	35	26	4.7	43	12	7.1	.80
8	2.7	260	146	16	17	35	54	44	21	3.7	6.3	.80
9	2.5	65	290	14	18	25	35	28	7.9	6.3	9.1	3.9
10	1.5	20	315	6.0	18	26	75	19	2.9	24	44	9.5
11	.44	17	180	4.6	18	173	46	15	3.2	32	13	2.1
12	1.7	45	30	4.0	14	32	46	14	4.2	18	8.3	.35
13	2.7	56	137	3.6	15	31	32	6.3	108	8.7	9.1	.28
14	2.7	430	33	5.1	24	30	20	.90	5.9	5.9	16	.35
15	2.7	204	20	6.0	95	162	15	.90	2.5	5.3	13	.21
16	4.4	18	21	6.7	63	142	15	.90	12	5.9	11	.15
17	6.3	17	26	9.5	35	379	166	1.0	65	4.4	7.5	.53
18	2.3	14	7.5	13	35	370	192	2.0	18	3.4	7.1	.10
19	1.8	22	26	29	35	37	424	15	29	1.4	9.5	.15
20	.44	157	196	35	35	36	178	64	346	2.7	37	.10
21	.35	21	149	34	25	57	36	9.1	216	565	42	.06
22	.35	20	31	89	6.1	25	36	2.3	26	788	13	.71
23	.71	13	23	90	5.1	17	258	3.9	22	523	4.2	1.0
24	.71	7.1	16	42	6.0	14	454	8.3	16	303	1.7	.80
25	1.2	8.3	17	14	6.0	32	36	19	13	358	1.4	.71
26	1.4	13	17	14	8.1	248	28	100	14	248	.53	.80
27	1.7	19	21	29	8.3	130	91	126	69	43	.44	1.1
28	6.3	25	28	35	8.0	26	146	122	391	26	.44	1.2
29	12	28	3.9	35	------	45	31	38	367	17	.44	16
30	11	28	10	35	------	243	17	30	25	14	1.5	81
31	14	------	192	35	------	69	------	24	------	49	.80	------
TOTAL	376.15	2,383.4	2,448.7	1,032.5	711.6	2,673.2	2,881	769.10	2,022.8	3,241.7	427.45	126.33
MEAN	12.1	79.4	79.0	33.3	25.4	86.2	96.0	24.8	67.4	105	13.8	4.21
MAX	196	430	315	206	95	379	454	126	391	788	100	81
MIN	.15	7.1	3.9	3.6	5.1	6.0	15	.90	2.5	1.4	.44	.06

CAL YR 1972 TOTAL 13,364.15 MEAN 36.5 MAX 544 MIN 0
WTR YR 1973 TOTAL 19,093.93 MEAN 52.3 MAX 788 MIN .06

03259000 Mill Creek at Carthage, Ohio

LOCATION.--Lat 39°12'07", long 84°28'16", in SW 1/4 sec.1, R.1, T.3, Hamilton County, on right bank 100 ft (30 m) downstream from Anthony Wayne Avenue Bridge in Carthage, 1.0 mi (1.6 km) downstream from West Fork Mill Creek, and 11.0 mi (17.7 km) upstream from mouth.

DRAINAGE AREA.--115 mi² (298 km²).

PERIOD OF RECORD.--November 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 512.00 ft (156.058 m) above mean sea level, Ohio River datum. Prior to Oct. 1, 1954 at site 100 ft (30 m) upstream at same datum.

EXTREMES.--Current year: Maximum discharge, 7,260 ft³/s (206 m³/s) June 19, gage height, 14.46 ft (4.407 m); minimum, 11 ft³/s (0.31 m³/s) Aug. 26, 27, 29, 30.

Period of record: Maximum discharge, 8,900 ft³/s (252 m³/s) Jan. 21, 1959, gage height, 16.17 ft (4.929 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some inter-basin transfers of water between Mill Creek and Great Miami River basins by industrial and municipal operations. Flow regulated by West Fork Mill Reservoir, 6.9 mi (11.1 km) upstream, beginning 1953 (see station 03256500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	1,210	205	219	150	43	270	96	97	130	176	46
2	24	1,160	258	115	310	42	160	93	63	82	78	16
3	15	203	80	295	170	60	133	80	47	111	58	13
4	233	81	105	621	110	74	785	63	472	382	46	17
5	356	58	121	183	100	397	320	44	487	221	34	23
6	60	46	460	106	85	109	155	40	144	99	36	38
7	31	586	167	88	60	122	133	43	144	61	34	18
8	17	674	1,400	73	92	97	248	167	89	43	31	14
9	14	171	904	57	70	91	209	96	58	41	32	31
10	14	111	571	41	60	111	263	79	39	64	73	25
11	15	108	298	37	52	454	181	65	36	96	33	17
12	43	101	125	33	50	145	178	49	172	53	24	15
13	20	557	415	31	52	108	137	36	131	39	34	14
14	14	1,450	145	34	110	180	101	28	38	79	68	16
15	13	517	136	38	270	529	83	29	27	43	39	13
16	17	125	106	42	180	659	86	28	79	28	30	13
17	20	100	69	48	100	1,500	562	29	121	24	25	13
18	14	83	63	54	80	775	1,180	24	52	22	20	13
19	13	193	142	76	84	189	1,000	96	957	21	20	12
20	13	472	701	76	86	152	553	162	1,580	74	111	12
21	12	122	353	80	72	153	174	49	508	2,560	73	12
22	12	102	131	260	48	108	131	33	128	1,230	30	29
23	20	78	105	220	46	88	1,120	40	88	729	18	32
24	14	63	84	120	42	79	841	45	58	1,020	15	13
25	13	63	77	74	40	209	165	147	52	1,030	13	13
26	13	83	104	64	44	645	139	340	46	490	12	13
27	24	83	97	150	45	250	475	568	1,470	145	13	13
28	43	121	99	160	44	119	433	308	827	91	13	13
29	28	109	73	170	------	508	133	201	508	62	12	58
30	22	115	62	110	------	642	104	211	93	51	160	104
31	75	------	813	100	------	315	------	134	------	288	51	------
TOTAL	1,284	8,945	8,469	3,775	2,652	8,953	10,452	3,423	8,611	9,409	1,412	679
MEAN	41.4	298	273	122	94.7	289	348	110	287	304	45.5	22.6
MAX	356	1,450	1,400	621	310	1,500	1,180	568	1,580	2,560	176	104
MIN	12	46	62	31	40	42	83	24	27	21	12	12

CAL YR 1972 TOTAL 49,120 MEAN 134 MAX 1,560 MIN 10
WTR YR 1973 TOTAL 68,064 MEAN 186 MAX 2,560 MIN 12

Note: No gage height record January 13 to March 5.

03260700 Bokengehalas Creek near De Graff, Ohio

LOCATION.--Lat 40°20'50", long 83°53'28", in E. 1/2 sec. 3, R. 14, T.2, Logan County, on right bank at downstream side of county road bridge, 2 mi (3 km) downstream from Bluejacket Creek, 2.8 mi (4.5 km) northeast of De Graff, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--36.3 mi² (94.0 km²).

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1962, published as Buckongahelas Creek near Degraff.

GAGE.--Water-stage recorder. Datum of gage is 1,008.76 ft (307.470 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 32.4 ft³/s (0.918 m³/s), 12.12 in/yr (307.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 774 ft³/s (21.9 m³/s) Aug. 12, gage height, 5.54 ft (1.689 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 30.

Period of record: Maximum discharge, 1,780 ft³/s (50.4 m³/s) Jan. 21, 1959, gage height, 6.83 ft (2.082 m); minimum, 2.0 ft³/s (0.057 m³/s) Sept. 29, 30, Oct. 1, 8, 1963.

REMARKS.--Records good. Diurnal fluctuation caused by municipal plant operation in Bellefontaine, 9.8 mi (15.8 km) upstream; since storage capacity is small, daily flows are not affected appreciably. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	61	48	72	50	30	94	79	26	26	22	20
2	41	389	46	56	108	35	78	71	24	26	21	19
3	32	167	45	53	78	41	72	81	24	179	20	18
4	30	98	46	96	58	41	110	66	32	320	18	18
5	30	72	48	62	53	46	143	57	50	118	16	18
6	28	58	203	46	49	42	93	53	107	71	17	18
7	26	130	103	40	44	39	76	51	85	51	17	17
8	24	289	82	38	38	36	78	73	53	40	16	15
9	23	122	101	36	34	36	83	70	41	33	16	15
10	22	88	87	34	32	98	112	68	35	30	17	16
11	22	83	66	32	30	173	92	77	32	27	23	16
12	41	65	68	31	29	109	110	56	35	24	536	15
13	32	100	181	30	28	72	139	48	37	23	182	15
14	28	490	89	28	30	116	95	46	30	21	145	22
15	24	193	67	27	40	197	76	44	28	20	185	18
16	30	124	50	29	34	103	72	41	30	19	95	14
17	27	93	45	31	32	280	104	39	29	18	69	14
18	24	76	47	36	31	172	120	35	29	17	55	14
19	24	78	50	41	30	142	108	53	28	17	47	14
20	23	106	88	35	29	121	92	55	75	35	60	14
21	23	77	100	32	29	98	78	43	41	49	45	13
22	22	67	99	57	28	90	76	38	32	41	38	13
23	26	59	78	51	28	88	86	38	28	35	35	16
24	26	55	70	41	27	90	76	37	26	32	34	13
25	24	54	64	38	27	106	67	36	24	39	32	13
26	24	58	62	38	30	121	62	36	24	126	29	12
27	23	58	58	41	29	93	124	34	78	56	28	12
28	24	56	54	61	28	72	136	33	47	34	26	12
29	24	51	51	55	------	79	83	32	41	28	24	12
30	23	49	54	40	------	134	92	30	31	25	24	11
31	23	------	97	36	------	96	------	28	------	23	23	------
TOTAL	853	3,466	2,347	1,343	1,083	2,996	2,827	1,548	1,202	1,603	1,915	457
MEAN	27.5	116	75.7	43.3	38.7	96.6	94.2	49.9	40.1	51.7	61.8	15.2
MAX	60	490	203	96	108	280	143	81	107	320	536	22
MIN	22	49	45	27	27	30	62	28	24	17	16	11
CFSM	.76	3.20	2.09	1.19	1.07	2.66	2.60	1.37	1.10	1.42	1.70	.42
IN.	.87	3.55	2.41	1.38	1.11	3.07	2.90	1.59	1.23	1.64	1.96	.47

CAL YR 1972 TOTAL 22,020.0 MEAN 60.2 MAX 903 MIN 8.6 CFSM 1.66 IN 22.57
WTR YR 1973 TOTAL 21,640.0 MEAN 59.3 MAX 536 MIN 11 CFSM 1.63 IN 22.18

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1430	4.96	513	3-11	1530	3.93	310	7-26	1345	3.87	300
11-8	0300	4.45	395	3-14	2400	4.30	365	8-12	1215	5.54	774
11-14	0800	5.48	739	3-17	0530	4.20	350	8-14	2400	3.88	302
12-6	1230	4.45	395	7-4	0045	5.20	600				

03260800 Stony Creek near De Graff, Ohio

LOCATION.--Lat 40°17'27", long 83°54'36", in NW 1/4 sec. 5, R.13, T.3, Logan County, on right bank at downstream side of county road bridge, 0.6 mi (1.0 km) downstream from Lee Creek, 1.5 mi (2.4 km) south of De Graff, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--59.1 mi^2 (153 km^2).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 967.54 ft (294.906 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 50.7 ft^3/s (1.436 m^3/s), 11.65 in/yr (295.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,760 ft^3/s (49.8 m^3/s) Aug. 12, gage height, 8.75 ft (2.667 m); minimum, 29 ft^3/s (0.82 m^3/s) Oct. 10, 11, 12.
Period of record: Maximum discharge, 2,770 ft^3/s (78.4 m^3/s) Jan. 22, 1959, gage height, 9.39 ft (2.862 m); maximum gage height, 11.48 ft (3.499 m) Jan. 22, 1959, backwater from Great Miami River; minimum, 4.0 ft^3/s (0.11 m^3/s) Sept. 27, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	126	69	116	75	45	158	81	45	51	49	40
2	68	582	65	90	144	49	121	76	43	52	45	38
3	58	370	63	84	120	58	98	96	41	374	42	37
4	47	193	64	138	93	61	163	78	49	856	40	36
5	56	124	66	103	81	71	257	71	75	473	38	36
6	50	96	268	80	73	65	162	66	162	206	36	36
7	43	184	196	65	67	60	115	63	137	126	34	34
8	39	380	134	58	60	55	105	91	82	91	33	34
9	34	209	158	54	52	55	104	104	64	74	33	34
10	30	134	140	52	48	120	155	93	55	86	37	34
11	29	114	102	50	45	265	131	116	50	74	56	33
12	72	95	95	48	44	215	154	95	57	59	1,310	32
13	61	162	271	46	43	125	225	72	70	52	566	31
14	49	720	160	45	46	201	150	65	53	50	394	49
15	42	346	110	44	72	352	108	61	46	51	450	39
16	40	203	90	44	66	212	94	58	45	45	260	35
17	34	135	66	44	58	443	143	58	47	43	161	33
18	35	108	76	48	50	332	141	54	45	40	117	32
19	35	115	80	56	48	268	136	78	56	39	99	31
20	33	141	130	51	47	209	122	92	455	47	120	31
21	32	110	163	48	46	152	96	68	198	66	96	31
22	32	94	162	75	45	139	86	61	107	61	75	34
23	36	84	128	79	45	126	87	59	73	52	64	53
24	37	76	112	64	44	121	81	56	63	60	62	37
25	35	74	100	58	44	146	72	56	54	130	59	34
26	34	81	96	57	45	236	64	60	49	208	53	32
27	32	86	88	63	43	184	95	58	78	139	48	31
28	33	90	80	86	43	125	136	57	79	79	45	32
29	33	78	77	88	------	123	93	52	83	62	42	33
30	32	73	80	68	------	192	90	51	60	54	42	33
31	31	------	124	58	------	151	------	49	------	50	43	------
TOTAL	1,332	5,383	3,613	2,060	1,687	4,966	3,742	2,195	2,521	3,850	4,549	1,055
MEAN	43.0	179	117	66.5	60.3	160	125	70.8	84.0	124	147	35.2
MAX	106	720	271	138	144	443	257	116	455	856	1,310	53
MIN	29	73	63	44	43	45	64	49	41	39	33	31
CFSM	.73	3.03	1.98	1.13	1.02	2.71	2.12	1.20	1.42	2.10	2.49	.60
IN.	.84	3.39	2.27	1.30	1.06	3.13	2.36	1.38	1.59	2.42	2.86	.66

CAL YR 1972 TOTAL 28,954 MEAN 79.1 MAX 720 MIN 13 CFSM 1.34 IN 18.22
WTR YR 1973 TOTAL 36,953 MEAN 101 MAX 1,310 MIN 29 CFSM 1.71 IN 23.26

PEAK DISCHARGE (BASE, 350 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1630	7.52	720	3-11	1730	6.30	350	7-4	0315	8.21	1,190
11-8	0300	6.80	445	3-14	2400	6.82	450	8-12	0945	8.75	1,760
11-14	0745	7.85	910	3-17	0900	6.98	494	8-14	2345	7.32	620
12-6	1430	6.42	368	6-20	0615	7.28	602				

03261500 Great Miami River at Sidney, Ohio

LOCATION.--Lat 40°17'13", long 84°09'00", Shelby County, on right bank 50 ft (15 m) upstream from North Street Bridge in Sidney, and 0.5 mi (0.8 km) downstream from Tawawa Creek.

DRAINAGE AREA.--541 mi² (1,401 km²).

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1962, published as Miami River at Sidney.

GAGE.--Water-stage recorder. Datum of gage is 924.70 ft (281.848 m) above mean sea level, adjustment of 1912. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft (15 m) downstream at datum 1.76 ft (0.536 m) higher. Sept. 18, 1919, to August, 1925, nonrecording gage at site 50 ft (15 m) downstream at present datum.

AVERAGE DISCHARGE.--48 years (1925-73), 475 ft³/s (13.45 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,680 ft³/s (189 m³/s) Aug. 12, gage height, 9.57 ft (2.917 m); minimum, 92 ft³/s (2.61 m³/s) Sept. 27, 28, 29.

Period of record: Maximum discharge, 20,700 ft³/s (586 m³/s) Mar. 20, 1927, gage height, 14.4 ft (4.39 m), from rating curve extended above 6,900 ft³/s (195 m³/s) on basis of velocity-area studies; maximum gage height, 15.91 ft (4.849 m) Jan. 21, 1959; minimum discharge, 1.5 ft³/s (0.042 m³/s) Aug. 13, 1963, result of temporary storage behind dam upstream; minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Sept. 23, 1935.

Flood of Mar. 25, 1913 reached a stage of 19.6 ft (5.97 m), present datum, discharge, 44,000 ft³/s (1,250 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good except those for January and February, which are fair. Water supply for city of Sidney is pumped from the Great Miami River 1,200 ft (366 m) upstream and from wells adjacent to Great Miami River upstream from station. The pumpage averaged 4.3 ft³/s (0.12 m³/s) in 1973 and is returned as sewage 1.2 mi (1.9 km) downstream from the station. Some regulation by Indian Lake, 28 mi (45 km) upstream, capacity, 45,900 acre-ft (56.6 hm³) prior to 1926; water diverted into Miami and Erie Canal at Port Jefferson, 2.8 mi (4.5 km) upstream, prior to 1926; amount of diversion not published. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 1305: 1914(M), 1922(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,850	676	692	1,180	660	208	2,040	660	356	483	273	177
2	1,190	3,840	633	820	1,600	243	1,690	570	305	463	256	164
3	835	3,590	611	701	1,690	441	1,290	615	281	2,630	218	159
4	737	2,510	584	1,220	1,230	692	1,460	620	290	4,440	192	144
5	1,020	1,770	624	1,220	930	855	2,350	532	834	3,330	176	135
6	940	1,230	2,750	760	720	935	1,770	383	2,060	2,200	159	131
7	746	1,400	3,040	540	550	701	1,270	370	2,210	1,320	141	132
8	633	3,480	2,310	420	440	660	1,090	414	1,760	795	128	127
9	541	2,790	2,040	300	360	637	1,020	1,020	1,230	537	121	120
10	484	2,070	1,710	270	300	1,970	1,450	775	633	632	124	119
11	454	1,600	1,260	240	260	2,940	1,400	1,200	552	547	207	113
12	647	1,220	995	230	230	2,820	1,310	1,100	468	392	6,030	104
13	660	1,410	2,340	220	210	1,990	2,150	950	1,730	262	5,090	113
14	484	5,340	2,080	210	330	1,700	1,780	750	1,370	220	3,770	136
15	387	4,440	1,510	210	660	3,020	1,290	580	625	209	4,560	156
16	317	3,090	1,020	210	640	2,270	1,040	420	418	201	3,270	125
17	284	2,160	674	200	380	4,000	1,380	320	421	172	2,460	116
18	248	1,560	700	200	330	3,590	1,570	280	383	155	1,730	110
19	213	1,300	760	230	302	3,290	1,350	397	359	142	1,330	116
20	191	1,760	1,090	248	278	2,810	1,270	516	2,080	156	1,640	105
21	180	1,490	1,600	218	267	2,220	915	719	1,330	295	1,170	102
22	174	1,130	1,720	284	253	1,860	723	512	739	499	729	107
23	182	915	1,490	732	248	1,580	1,180	420	495	737	485	142
24	202	765	1,250	719	228	1,390	1,080	404	389	947	373	133
25	199	701	1,130	597	211	1,400	785	387	320	1,790	335	117
26	188	732	995	570	213	2,110	575	557	262	1,880	290	104
27	178	830	925	624	211	2,010	575	566	905	1,440	260	98
28	178	935	795	845	204	1,420	1,390	450	1,200	828	231	94
29	178	815	732	1,250	------	1,130	945	418	1,260	566	210	96
30	178	723	755	820	------	1,740	660	387	768	413	196	101
31	240	------	1,030	640	------	1,610	------	411	------	309	201	------
TOTAL	14,938	56,272	39,845	16,928	13,935	54,242	38,798	17,711	26,253	29,040	36,355	3,706
MEAN	482	1,876	1,285	546	498	1,750	1,293	571	875	937	1,173	124
MAX	1,850	5,340	3,040	1,250	1,690	4,000	2,350	1,200	2,210	4,440	6,030	177
MIN	174	676	584	200	204	208	575	280	262	142	121	94

CAL YR 1972 TOTAL 298,426 MEAN 815 MAX 5,340 MIN 48
WTR YR 1973 TOTAL 348,023 MEAN 953 MAX 6,030 MIN 94

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1700	7.74	4,570	3-17	0930	7.64	4,460	8-12	1130	9.57	6,680
11-14	0900	8.74	5,690	7-4	0530	7.89	4,740	8-14	2230	8.48	5,390

03261950 Loramie Creek near Newport, Ohio

LOCATION.--Lat 40°18'25", long 84°23'02", in SE 1/4 sec. 24, T.11N., R.4E., Shelby County, on right bank at downstream side of bridge on Cardo Roman Road, 1.1 mi (1.8 km) northwest of Newport, 3 mi (5 km) south of Fort Loramie, and 3 mi (5 km) downstream from Mile Creek.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 927.00 ft (282.550 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--9 years, 127 ft³/s (3.597 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,360 ft³/s (66.8 m³/s) Nov. 15, gage height, 12.21 ft (3.722 m); minimum, 0.60 ft³/s (0.017 m³/s) Sept. 29.

Period of record: Maximum discharge, 2,360 ft³/s (66.8 m³/s) Nov. 15, 1972; maximum gage height, 12.50 ft (3.810 m) May 8, 1967; minimum, 0.10 ft³/s (0.003 m³/s) several days in August 1965 and September 1966.

Flood of Mar. 25, 1913 reached a stage of 17.0 ft (5.18 m) and flood of Jan. 21, 1959 a stage of 14.2 ft (4.33 m), from flood profile furnished by Miami Conservancy District.

REMARKS.--Records good. Some regulation by Lake Loramie 5 mi (8 km) upstream; capacity, 13,000 acre-ft (16.0 hm³). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts and 10 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WRD Ohio 1971: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	891	159	137	244	116	17	500	119	22	141	9.8	5.9
2	375	1,290	123	151	470	24	371	105	20	72	7.7	5.0
3	209	2,040	118	130	516	63	247	97	17	450	5.9	4.5
4	221	1,350	112	426	292	139	329	88	91	936	4.8	4.0
5	412	506	120	311	207	374	678	82	776	870	3.6	3.4
6	292	238	1,100	130	154	356	369	62	858	342	2.5	3.4
7	197	331	1,890	100	179	516	228	17	566	178	2.2	3.0
8	144	1,510	1,110	30	278	701	183	80	246	105	1.8	2.5
9	129	1,410	451	27	215	485	160	106	133	62	1.2	1.9
10	76	691	302	25	83	1,500	268	66	88	48	1.2	2.2
11	17	347	210	25	73	1,780	231	92	60	36	4.6	2.4
12	208	250	179	23	51	1,760	278	67	56	21	636	2.3
13	254	373	772	24	20	941	664	52	65	11	1,160	1.9
14	155	1,970	607	25	22	509	383	39	47	9.1	1,060	4.5
15	108	2,220	260	28	102	1,110	215	35	30	9.8	1,750	9.4
16	80	1,380	140	24	90	733	150	28	28	8.0	1,590	5.3
17	76	541	110	24	50	1,510	169	28	35	5.9	648	2.8
18	56	266	92	26	38	1,640	154	22	28	4.8	223	2.5
19	46	231	82	33	34	1,220	139	72	19	4.3	104	2.1
20	32	564	202	29	32	699	140	167	21	4.4	238	1.8
21	30	381	329	24	30	392	116	97	20	19	278	1.8
22	31	241	367	121	26	247	380	66	14	43	143	1.7
23	38	169	326	322	22	179	1,150	57	10	28	73	2.8
24	44	133	297	220	19	157	755	50	9.4	19	47	2.5
25	43	118	271	274	16	221	322	39	8.4	38	34	1.7
26	34	136	225	238	15	636	175	34	7.7	158	24	1.1
27	38	210	179	127	14	633	132	40	659	116	18	.99
28	41	266	141	234	15	340	134	41	720	64	14	.80
29	52	195	127	305	-------	220	118	35	580	39	12	.75
30	56	160	147	139	-------	455	113	34	276	21	9.4	1.7
31	58	-------	362	109	-------	319	-------	28	-------	13	7.3	-------
TOTAL	4,441	19,676	10,888	3,948	3,179	19,876	9,251	1,945	5,509.5	3,926.7	8,119.0	87.44
MEAN	143	656	351	127	114	641	308	62.7	184	127	262	2.91
MAX	891	2,220	1,890	426	516	1,780	1,150	167	858	936	1,750	9.4
MIN	17	118	82	23	14	17	113	17	7.7	4.3	1.2	.75

CAL YR 1972 TOTAL 84,571.67 MEAN 231 MAX 2,220 MIN .66
WTR YR 1973 TOTAL 90,846.64 MEAN 249 MAX 2,220 MIN .75

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0930	11.73	2,120	12-7	0800	11.47	1,980	3-17	2200	11.22	1,860
11-6	2000	11.00	1,750	3-12	0130	11.46	1,980	8-15	1900	11.31	1,900
11-15	0400	12.21	2,360								

03262000 Loramie Creek at Lockington, Ohio

LOCATION.--Lat 40°12'35", long 84°14'32", in NE 1/4 sec. 30, T.7N., R.6E., Shelby County, on left bank at downstream side of county road bridge, 1,300 ft (396 m) downstream from Lockington Dam, 0.5 mi (0.8 km) northwest of Lockington, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--257 mi² (666 km²).

PERIOD OF RECORD.--October 1915 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 800.03 ft (243.849 m) above mean sea level, adjustment of 1912. Prior to July 3, 1924 nonrecording gage at same site at datum 75.96 ft (23.153 m) higher. July 3, 1924, to Aug. 17, 1926, nonrecording gage, and Aug. 18 to Sept. 30, 1926, water-stage recorder, at same site at datum 74.96 ft (22.848 m) higher.

AVERAGE DISCHARGE.--58 years, 206 ft³/s (5.834 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,390 ft³/s (124 m³/s) Aug. 15, gage height, 83.49 ft (25.448 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 30, gage height, 77.50 ft (23.622 m).

Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) May 7, 1916, gage height, 86.4 ft (26.33 m), present datum, from rating curve extended above 5,400 ft³/s (153 m³/s); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 19, 1931.

Flood of March 25, 1913 reached a stage of 91.6 ft (27.92 m), present datum, discharge, 25,600 ft³/s (725 m³/s), at site upstream from Turtle Creek, drainage area, 211 mi² (546 km²), computed by Miami Conservancy District.

REMARKS.--Records good. Slight regulation by Lake Loramie 18 mi (29 km) upstream, capacity, 13,000 acre-ft (16.0 hm³). Flood flow regulated by Lockington retarding basin beginning in 1921. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 923: 1916. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,100	170	211	446	182	46	936	206	62	206	40	31
2	613	3,200	182	250	765	53	632	182	54	127	35	28
3	288	2,380	164	196	860	100	412	164	49	632	30	28
4	335	1,760	155	737	509	239	651	148	66	1,130	27	27
5	718	841	173	585	335	661	1,090	131	1,320	1,090	24	31
6	480	365	2,290	290	255	651	661	124	1,340	651	22	42
7	294	784	2,130	200	206	813	395	78	898	281	20	31
8	200	2,290	1,630	90	343	1,200	328	98	429	160	18	26
9	155	1,700	946	70	320	851	307	268	222	106	17	25
10	127	1,040	670	58	150	2,460	547	395	145	127	17	24
11	68	623	395	54	110	2,800	429	680	103	131	17	23
12	388	412	288	50	88	2,460	585	211	84	68	1,490	23
13	438	765	1,290	52	68	1,400	1,060	138	155	49	1,180	22
14	244	3,790	936	55	56	927	651	106	95	39	1,540	50
15	155	2,800	480	56	224	1,640	373	88	68	42	3,920	43
16	112	1,770	301	54	230	623	299	78	57	36	1,930	33
17	98	927	260	54	110	2,790	632	68	59	30	1,150	26
18	86	446	230	57	90	2,250	509	65	71	26	421	22
19	68	373	220	61	84	1,780	395	134	55	24	233	20
20	57	898	499	62	78	1,120	335	314	59	25	708	19
21	49	670	708	55	72	699	244	191	53	106	518	19
22	47	412	708	120	66	463	499	127	45	173	262	20
23	47	294	585	537	62	328	1,380	103	38	103	148	26
24	50	228	509	301	58	281	1,100	92	34	92	100	26
25	53	191	455	328	51	395	547	82	30	228	88	21
26	51	233	380	314	49	1,170	307	71	29	373	65	18
27	47	358	314	217	47	1,050	255	72	585	281	56	16
28	52	455	244	380	45	604	301	84	927	139	49	15
29	60	320	211	632	------	395	211	78	794	84	44	15
30	72	244	228	250	------	737	196	76	446	62	39	14
31	86	------	455	173	------	542	------	78	------	48	34	------
TOTAL	6,638	30,739	18,247	6,784	5,513	31,628	16,267	4,738	8,372	6,668	14,234	764
MEAN	214	1,025	589	219	197	1,020	542	153	279	215	459	25.5
MAX	1,100	3,790	2,290	737	860	2,800	1,380	680	1,340	1,130	3,920	50
MIN	47	170	155	50	45	46	196	65	29	24	17	14

CAL YR 1972 TOTAL 130,157.4 MEAN 356 MAX 3,790 MIN 7.7
WTR YR 1973 TOTAL 150,586.0 MEAN 413 MAX 3,920 MIN 14

03262700 Great Miami River at Troy, Ohio

LOCATION.--Lat 40°02'25", long 84°11'52", Miami County, 400 ft (122 m) downstream from B and O Railroad bridge, 1,300 ft (396 m) downstream from bridge on State Highway 55 at Troy, 1.2 mi (1.9 km) upstream from small left bank tributary, and 2.3 mi (3.7 km) downstream from Spring Creek.

DRAINAGE AREA.--926 mi² (2,398 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961, 1962 (published as Miami River at Troy). October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.67 ft (247.092 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 769 ft³/s (21.78 m³/s).

EXTREMES.--Current year: Maximum discharge, 13,100 ft³/s (371 m³/s) Nov. 14, gage height, 12.53 ft (3.819 m); minimum, 150 ft³/s (4.25 m³/s) Sept. 28, 29, 30.

Period of record: Maximum discharge, 17,300 ft³/s (490 m³/s) Mar. 6, 1963, gage height, 14.66 ft (4.468 m); minimum, 0.50 ft³/s (0.014 m³/s) July 12, 13, 1963, gage height, 2.37 ft (0.722 m), result of temporary storage during repair of dam upstream; minimum daily discharge, 16 ft³/s (0.45 m³/s) July 13, Oct. 7, 1963.

Flood of June 11, 1958 reached a stage of 16.4 ft (5.00 m), discharge, 21,000 ft³/s (595 m³/s).

REMARKS.--Records good. Flood flow regulated by retarding basin on Loramie Creek, 18 mi (29 km) upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft (56.6 hm³), 54 mi (87 km) upstream. Water supply for city of Troy is pumped from wells adjacent to the Great Miami River upstream from the station. The pumpage averaged 3.5 ft³/s (0.099 m³/s) in 1973 and is returned as sewage 1 mi (2 km) downstream from the station. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 10 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,740	637	1,090	2,070	954	320	3,520	1,080	568	824	414	281
2	2,390	7,370	990	1,360	2,270	350	2,860	972	469	608	372	237
3	1,310	7,870	909	1,090	3,030	490	2,180	900	427	3,010	344	221
4	1,100	5,920	900	2,020	2,140	945	2,210	900	518	5,790	295	225
5	2,110	4,270	900	2,240	1,550	1,450	4,140	855	2,130	5,040	267	217
6	1,740	2,550	4,600	1,430	1,250	1,910	3,120	729	4,050	3,570	245	225
7	1,230	2,420	6,160	900	1,060	1,470	2,140	632	3,790	2,030	233	210
8	927	7,390	4,640	660	1,130	2,090	1,780	656	2,680	1,170	214	210
9	760	6,070	3,820	460	940	1,520	1,600	1,170	1,790	765	214	207
10	663	5,060	3,070	420	600	4,300	2,190	1,110	1,180	846	210	200
11	578	3,960	2,180	400	460	6,030	2,200	1,970	828	1,170	214	193
12	1,040	3,150	1,610	390	430	6,360	1,980	1,770	624	632	6,830	190
13	1,410	3,020	3,690	380	410	4,220	3,780	1,380	1,580	448	8,240	183
14	907	11,800	3,850	380	400	2,940	2,940	1,090	1,840	378	5,820	183
15	668	10,100	2,580	370	927	5,360	2,130	855	882	360	10,800	241
16	535	5,980	1,680	370	1,240	4,200	1,640	720	864	344	9,400	210
17	452	3,940	1,010	360	747	8,010	2,250	592	1,040	316	4,330	186
18	425	2,600	1,120	370	584	7,260	2,670	568	891	286	2,650	175
19	352	2,030	1,190	390	520	6,290	2,300	560	600	267	1,760	172
20	316	3,210	1,830	427	460	4,840	2,150	1,110	2,450	267	2,980	177
21	276	2,740	2,820	396	420	3,550	1,590	1,140	1,980	427	2,240	164
22	265	2,000	3,080	448	390	2,800	1,240	810	1,060	688	1,300	169
23	276	1,550	2,640	1,210	370	2,340	2,670	664	704	743	801	197
24	276	1,260	2,190	1,250	360	2,040	2,740	608	568	891	608	207
25	294	1,110	1,980	1,050	350	2,040	1,690	624	490	2,380	525	186
26	290	1,140	1,720	999	340	3,780	1,100	729	414	2,970	455	175
27	273	1,380	1,520	963	330	3,850	981	828	1,350	2,470	402	158
28	267	1,610	1,280	1,140	320	2,580	1,870	720	2,430	1,260	360	153
29	265	1,410	1,120	2,200	------	1,930	1,590	664	2,190	792	333	153
30	262	1,170	1,120	1,450	------	2,800	1,100	600	1,510	600	316	150
31	267	------	1,540	1,060	------	2,730	------	592	------	476	295	------
TOTAL	25,664	114,717	68,829	28,653	24,022	100,795	66,351	27,598	41,897	41,862	60,467	5,860
MEAN	828	3,824	2,220	924	858	3,251	2,212	890	1,397	1,350	1,951	195
MAX	3,740	11,800	6,160	2,240	3,030	8,010	4,140	1,970	4,050	5,790	10,800	281
MIN	262	637	900	360	320	320	981	560	414	267	210	150

CAL YR 1972 TOTAL 514,566 MEAN 1,406 MAX 11,800 MIN 65
WTR YR 1973 TOTAL 606,715 MEAN 1,662 MAX 11,800 MIN 150

03263000 Great Miami River at Taylorsville, Ohio

LOCATION.--Lat 39°52'22", long 84°09'51", in SW 1/4 sec. 36, R.8, T.2, Montgomery County, on left bank 600 ft (183 m) downstream from Taylorsville Dam, 0.8 mi (1.3 km) north of Taylorsville, and 9.5 mi (15.3 km) upstream from Stillwater River.

DRAINAGE AREA.--1,149 mi² (2,976 km²).

PERIOD OF RECORD.--January 1914 to September 1917 (published as Miami River at Tadmor), October 1921 to current year (published as Miami River at Taylorsville 1921-62). Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site at Tadmor, January 1914 to July 1920, are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 700.08 ft (213.384 m) above mean sea level, adjustment of 1912. Prior to October 1921, nonrecording gage at site 1.8 mi (2.9 km) upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 600 ft (183 m) upstream at outlet works of Taylorsville Dam at present datum.

AVERAGE DISCHARGE.--55 years, 987 ft³/s (27.95 m³/s), 11.67 in/yr (296.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,100 ft³/s (399 m³/s) Nov. 15, gage height, 71.50 ft (21.793 m); minimum, 195 ft³/s (5.52 m³/s) Sept. 29.

Period of record: Maximum discharge, 31,400 ft³/s (889 m³/s) Jan. 22, 1959, gage height, 75.44 ft (22.994 m); minimum, 30 ft³/s (0.85 m³/s) Jan. 2, 1945.

Flood in March 1913 reached a stage of 25.4 ft (7.74 m) at site at Tadmor, discharge, 127,000 ft³/s (3,600 m³/s) computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by retarding basins on Great Miami River, just upstream from station and on Loramie Creek 28 mi (45 km) upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake 64 mi (103 km) upstream from station, and by Lake Loramie 47 mi (76 km) upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft (72.6 hm³). Water-quality records for the current year are published for station 03263110 in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,700	664	1,390	2,410	1,300	466	3,950	1,360	772	1,360	664	501
2	2,800	6,510	1,280	1,750	1,800	470	3,380	1,270	640	1,010	590	422
3	1,800	10,200	1,170	1,430	2,900	545	2,570	1,200	580	3,380	543	365
4	1,400	8,480	1,150	2,180	2,300	950	2,570	1,160	736	5,740	473	354
5	2,100	4,040	1,130	2,600	1,900	1,350	5,110	1,060	2,320	6,550	422	339
6	2,000	2,470	3,730	1,810	1,510	1,940	3,820	936	5,120	4,200	383	383
7	1,570	2,320	7,900	1,200	1,320	1,540	2,610	820	4,770	2,580	359	345
8	1,240	7,950	5,730	950	1,100	2,040	2,180	1,010	3,190	1,680	330	324
9	1,030	7,160	4,640	820	1,000	1,680	1,990	1,390	2,260	1,220	336	326
10	862	4,770	3,500	660	880	3,780	2,460	1,390	1,630	1,060	350	316
11	766	3,280	2,630	600	800	6,350	2,590	2,000	1,260	1,670	337	297
12	1,060	2,530	1,990	580	700	8,150	2,260	1,900	1,060	1,040	4,510	285
13	1,810	2,290	4,090	560	640	5,030	4,040	1,610	1,580	752	9,450	269
14	1,290	10,300	4,500	550	600	3,340	3,380	1,330	2,230	597	6,930	264
15	964	12,800	3,010	540	1,050	7,250	2,440	1,090	1,390	576	9,910	316
16	772	8,580	2,100	540	1,500	5,520	1,930	915	1,110	513	9,500	304
17	646	4,960	1,900	540	1,100	8,840	2,510	802	2,160	470	5,210	265
18	585	3,070	1,800	560	940	9,980	3,090	742	2,760	420	3,110	247
19	520	2,400	1,900	580	820	8,010	2,810	730	1,300	387	2,140	243
20	450	3,340	2,600	560	682	6,080	2,540	1,170	3,670	383	3,480	247
21	410	3,150	3,300	540	640	4,180	2,030	1,360	2,940	719	3,120	240
22	390	2,400	3,700	658	580	3,210	1,530	1,010	1,790	1,070	1,880	229
23	394	1,910	3,100	1,270	540	2,670	2,530	838	1,270	1,080	1,280	256
24	402	1,620	2,700	1,480	520	2,340	3,080	766	1,020	1,400	986	278
25	406	1,450	2,400	1,250	510	2,350	2,060	766	887	3,030	830	270
26	402	1,470	2,100	1,200	490	4,930	1,450	1,250	775	3,510	720	240
27	382	1,650	1,810	1,200	490	5,190	1,310	1,310	1,760	3,150	625	219
28	378	1,840	1,610	1,400	474	3,230	2,050	1,120	2,970	1,870	557	202
29	370	1,740	1,420	1,900	------	2,410	1,990	957	2,570	1,270	507	201
30	370	1,490	1,390	1,600	------	3,130	1,450	850	2,090	966	585	206
31	370	------	1,770	1,400	------	3,210	------	796	------	773	765	------
TOTAL	31,639	126,834	83,440	35,318	29,086	120,161	77,710	34,908	58,610	54,426	70,882	8,753
MEAN	1,021	4,228	2,692	1,139	1,039	3,876	2,590	1,126	1,954	1,756	2,287	292
MAX	3,700	12,800	7,900	2,600	2,900	9,980	5,110	2,000	5,120	6,550	9,910	501
MIN	370	664	1,130	540	474	466	1,310	730	580	383	330	201
CFSM	.89	3.68	2.34	.99	.90	3.37	2.25	.98	1.70	1.53	1.99	.25
IN.	1.02	4.11	2.70	1.14	.94	3.89	2.52	1.13	1.90	1.76	2.29	.28

CAL YR 1972 TOTAL 597,633 MEAN 1,633 MAX 12,800 MIN 90 CFSM 1.42 IN 19.35
WTR YR 1973 TOTAL 731,767 MEAN 2,005 MAX 12,800 MIN 201 CFSM 1.75 IN 23.69

03264000 Greenville Creek near Bradford, Ohio

LOCATION.--Lat 40°06'08", long 84°25'48", between secs. 33 and 34, T.9N., R.4E., on boundary line of Darke and Miami Counties, on left bank at downstream side of bridge on State Highway 721, 0.8 mi (1.3 km) downstream from small left bank tributary, 1.8 mi (2.9 km) south of Bradford, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--October 1930 to current year. Prior to April 1931, monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 948.9 ft (289.22 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1942, nonrecording gage at same site and datum. Apr. 6. 1962 to Nov. 13, 1963, water-stage recorder at site 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE.--43 years, 169 ft³/s (4.786 m³/s), 11.89 in/yr (302.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,580 ft³/s (73.1 m³/s) Nov. 15, gage height, 6.77 ft (2.063 m); minimum, 32 ft³/s (0.91 m³/s) Sept. 18, 19.

Period of record: Maximum discharge, 9,320 ft³/s (264 m³/s) May 14, 1933, gage height, 9.2 ft (2.80 m); maximum gage height, 10.31 ft (3.142 m) Mar. 5, 1963, from high-water mark in well (ice jam); minimum discharge, 4.8 ft³/s (0.14 m³/s) Sept. 17, 1963.

Flood in March 1913 reached a stage of 12.1 ft (3.69 m), discharge, 18,200 ft³/s (515 m³/s), at site with drainage area of 213 mi² (552 km²), computed by Miami Conservancy District.

REMARKS.--Records fair. Some diurnal fluctuation caused by mill 8 mi (13 km) upstream from station; daily flows are not affected appreciably. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 803: 1933(M). WSP 1235: 1936, 1937(M). WRD 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	146	213	434	175	102	622	312	102	193	108	47
2	176	1,290	188	263	426	114	470	249	102	161	101	47
3	108	1,430	175	230	482	128	362	224	93	140	92	47
4	108	614	170	562	326	144	426	200	136	466	85	42
5	257	370	170	446	245	287	670	181	885	945	74	44
6	232	266	1,070	270	200	322	470	170	992	362	69	46
7	154	333	1,600	198	180	442	358	175	825	203	68	41
8	113	1,020	650	170	160	635	343	215	422	146	65	39
9	85	690	660	150	150	454	340	291	280	122	64	53
10	67	418	562	130	130	1,740	402	218	205	120	58	51
11	61	343	402	110	120	2,020	374	190	172	112	59	43
12	81	273	333	100	110	2,080	394	179	153	92	164	43
13	82	478	865	100	110	870	510	161	150	88	83	41
14	75	2,130	660	96	120	626	370	155	130	82	319	39
15	63	2,230	422	92	301	1,030	294	157	118	210	538	50
16	56	900	280	90	315	650	270	148	124	153	252	42
17	58	558	230	90	200	1,630	490	150	130	106	138	38
18	50	406	180	88	160	1,440	860	138	120	83	92	39
19	49	386	203	94	140	895	685	157	106	80	85	43
20	46	655	340	92	130	635	578	181	190	77	157	41
21	44	494	442	88	120	470	442	153	142	213	239	39
22	44	366	465	120	120	366	438	140	106	245	126	38
23	46	294	398	510	110	308	998	136	90	148	90	42
24	51	252	366	284	110	284	725	130	82	170	82	40
25	44	239	333	195	100	329	450	128	85	558	77	41
26	41	252	301	170	100	1,060	329	161	99	660	68	43
27	46	273	252	190	96	1,250	287	144	890	518	61	36
28	45	294	213	270	98	614	256	142	1,110	280	57	35
29	47	252	195	398	------	478	210	130	462	172	53	38
30	42	224	213	249	------	635	221	126	280	136	53	41
31	49	------	482	186	------	534	------	116	------	120	52	------
TOTAL	2,750	17,876	13,034	6,465	5,034	22,572	13,644	5,357	8,781	7,161	3,629	1,269
MEAN	88.7	596	420	209	180	728	455	173	293	231	117	42.3
MAX	330	2,230	1,600	562	482	2,080	998	312	1,110	945	538	53
MIN	41	146	170	88	96	102	210	116	82	77	52	35
CFSM	.46	3.09	2.18	1.08	.93	3.77	2.36	.90	1.52	1.20	.61	.22
IN.	.53	3.45	2.51	1.25	.97	4.35	2.63	1.03	1.69	1.38	.70	.24

CAL YR 1972 TOTAL 81,288 MEAN 222 MAX 2,230 MIN 16 CFSM 1.15 IN 15.67
WTR YR 1973 TOTAL 107,572 MEAN 295 MAX 2,230 MIN 35 CFSM 1.53 IN 20.73

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1130	5.41	1,590	3-12	0930	6.44	2,310	3-27	0730	5.26	1,500
11-15	0500	6.77	2,580	3-18	0130	5.89	1,900	6-28	0300	5.26	1,500
12-7	0800	5.85	1,880								

03265000 Stillwater River at Pleasant Hill, Ohio

LOCATION.--Lat 40°03'28", long 84°21'22", in SW 1/4 sec. 18, T.7N., R.5E., Miami County, on left bank at downstream side of bridge on Laurer Road, 0.8 mi (1.3 km) northwest of Pleasant Hill, 2 mi (3 km) downstream from Painter Creek, and 2 mi (3 km) upstream from Canyon Run.

DRAINAGE AREA.--503 mi^2 (1,303 km^2).

PERIOD OF RECORD.--October 1916 to September 1928, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site March 1922 to December 1963 are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 846.73 ft (258.083 m) above mean sea level, adjustment of 1912. Prior to Dec. 23, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--51 years, 439 ft^3/s (12.43 m^3/s), 11.85 in/yr (301.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,320 ft^3/s (236 m^3/s) Nov. 14, gage height, 12.10 ft (3.688 m); minimum, 52 ft^3/s (1.47 m^3/s) Sept. 28, 29.

Period of record: Maximum discharge, 26,400 ft^3/s (748 m^3/s) Jan. 14. 1937, from rating curve extended above 14,000 ft^3/s (396 m^3/s) on basis of velocity-area study; maximum gage height, 17.98 ft (5.480 m) Jan. 21, 1959; minimum discharge observed, 4 ft^3/s (0.11 m^3/s) Oct. 17, 1920, July 12, 22, Aug. 30, 1921.

Flood of January 25, 1913 reached a stage of 17.5 ft (5.33 m). Discharge, at site about 3 mi (5 km) upstream, 51,400 ft^3/s (1,460 m^3/s), computed by Miami Conservancy District. This stage is not comparable with present gage heights because of failure of levee in 1913.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 10 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 523: 1917. WSP 1305: 1920(M), 1922-25(M), WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,220	370	488	1,200	390	201	1,780	512	190	375	178	95
2	554	4,740	415	651	1,180	211	1,140	464	175	300	163	89
3	350	5,170	375	518	1,510	239	833	420	166	253	150	87
4	365	1,990	345	1,580	888	345	1,060	370	236	609	135	80
5	875	992	350	1,250	644	928	2,000	332	2,120	1,760	121	78
6	644	679	3,840	665	530	1,000	1,140	304	2,760	651	110	82
7	420	960	5,040	420	446	1,260	812	288	2,280	360	104	75
8	316	4,380	1,710	360	380	1,900	742	340	984	260	97	69
9	250	2,460	1,590	300	310	992	728	616	609	215	91	75
10	201	1,190	1,400	280	260	5,210	1,020	452	430	440	97	87
11	169	976	960	250	240	5,500	880	1,100	345	288	87	77
12	332	756	735	240	230	5,080	920	488	300	181	1,340	72
13	476	1,300	2,450	230	230	2,110	1,890	332	284	150	506	70
14	296	7,770	1,700	220	240	1,460	976	284	250	140	1,200	66
15	229	6,250	940	220	672	3,340	686	264	215	222	4,060	117
16	190	2,430	600	210	770	1,680	588	250	215	229	1,370	93
17	178	1,340	350	210	400	5,360	1,210	243	253	155	494	70
18	166	936	400	220	360	4,010	1,930	225	246	130	308	64
19	145	888	464	246	330	2,590	1,460	239	194	114	250	64
20	133	2,060	872	239	310	1,640	1,340	375	332	114	602	75
21	128	1,270	1,270	211	290	1,140	928	284	272	276	637	72
22	128	880	1,370	360	270	864	992	243	197	470	316	69
23	133	693	1,170	1,470	250	707	3,030	229	169	276	222	70
24	135	574	1,060	749	240	616	1,820	222	155	288	181	89
25	138	524	992	464	229	714	1,010	222	150	1,130	169	67
26	126	588	833	405	222	3,020	700	280	155	1,560	150	64
27	121	742	693	464	218	3,180	581	268	2,040	1,050	130	57
28	126	826	548	707	208	1,450	560	250	2,860	518	119	53
29	126	644	470	1,360	------	1,020	452	253	1,020	316	110	54
30	124	530	548	658	------	1,830	420	239	554	236	110	57
31	126	------	1,380	452	------	1,360	------	222	------	201	108	------
TOTAL	8,920	54,908	35,358	16,809	12,247	60,957	33,628	10,610	20,156	13,267	13,715	2,237
MEAN	288	1,830	1,141	542	437	1,966	1,121	342	672	428	442	74.6
MAX	1,220	7,770	5,040	1,580	1,510	5,500	3,030	1,100	2,860	1,760	4,060	117
MIN	121	370	345	210	208	201	420	222	150	114	87	53
CFSM	.57	3.64	2.27	1.08	.87	3.91	2.23	.68	1.34	.85	.88	.15
IN.	.66	4.06	2.61	1.24	.91	4.51	2.49	.78	1.49	.98	1.01	.17

CAL YR 1972 TOTAL 228,445 MEAN 624 MAX 7,770 MIN 27 CFSM 1.24 IN 16.89
WTR YR 1973 TOTAL 282,812 MEAN 775 MAX 7,770 MIN 53 CFSM 1.54 IN 20.92

PEAK DISCHARGE (BASE, 5,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0200	10.03	6,080	3-11	2400	10.16	6,210
11-14	1930	12.10	8,320	3-17	1430	10.16	6,210
12-7	0530	10.24	6,290				

03266000 Stillwater River at Englewood, Ohio

LOCATION.--Lat 39°52'10", long 84°16'57", in NW 1/4 sec. 23, T.5N., R.5E., Montgomery County, on right bank 1,000 ft (305 m) downstream from Englewood Dam, 1 mi (2 km) southeast of Englewood, and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA.--650 mi² (1,684 km²).

PERIOD OF RECORD.--October 1925 to current year (monthly discharge only, October 1925, published in WSP 1305).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 699.97 ft (213.351 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--48 years, 570 ft³/s (16.14 m³/s), 11.91 in/yr (302.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,660 ft³/s (189 m³/s) Nov. 15, gage height, 78.66 ft (23.976 m); minimum, 70 ft³/s (1.98 m³/s) Sept. 30, gage height 72.11 ft (21.979 m).

Period of record: Maximum discharge, 9,980 ft³/s (283 m³/s) June 15, 1958, gage height, 80.88 ft (24.652 m); minimum, 3.7 ft³/s (0.10 m³/s) Sept. 30, Oct. 1, 1944, gage height, 71.36 ft (21.751 m).

Flood in March 1913 reached a discharge of 85,400 ft³/s (2,420 m³/s) at site 1 mi (2 km) downstream, computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by Englewood retarding basin. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,680	205	659	1,820	554	278	2,290	640	338	586	266	152
2	740	2,700	578	970	980	278	1,700	670	302	448	236	137
3	455	5,020	506	713	1,980	302	1,230	600	284	392	220	131
4	371	4,570	469	1,470	1,290	364	1,250	510	371	344	200	128
5	704	1,870	462	1,920	870	659	2,590	428	2,020	1,840	180	118
6	840	910	1,910	1,020	722	1,360	1,760	378	4,320	1,110	164	115
7	538	812	4,850	668	610	900	1,210	346	4,060	562	152	115
8	399	3,070	4,560	490	540	2,340	1,050	446	2,140	392	144	107
9	314	4,130	2,800	420	460	1,200	1,010	704	1,090	314	144	107
10	254	2,080	2,050	380	400	3,140	1,330	634	767	284	137	118
11	210	1,320	1,530	340	350	4,970	1,290	960	594	594	140	121
12	200	1,060	1,070	320	330	5,540	1,110	840	498	296	910	109
13	490	970	2,010	300	330	5,190	2,200	498	462	230	910	104
14	392	4,640	2,870	300	350	3,460	1,480	413	406	205	586	102
15	284	6,510	1,480	290	538	3,550	1,000	371	350	205	3,420	99
16	236	6,240	1,030	290	1,170	3,420	821	350	326	302	2,890	148
17	200	4,840	610	280	659	4,310	1,450	332	385	248	840	121
18	195	2,100	600	280	554	5,490	2,260	320	483	195	483	99
19	180	1,130	660	300	554	5,100	2,040	332	350	172	392	87
20	160	2,180	1,050	320	448	3,850	1,840	427	530	164	840	87
21	144	2,020	1,770	302	420	1,900	1,350	427	476	236	1,160	89
22	140	1,290	1,870	357	392	1,300	1,030	344	344	538	602	84
23	148	980	1,650	1,320	378	1,050	2,560	320	284	462	378	84
24	144	794	1,400	1,210	357	880	2,760	308	248	399	302	89
25	144	713	1,320	668	326	890	1,450	350	290	1,450	260	107
26	140	731	1,140	538	308	2,470	1,000	940	260	1,890	230	89
27	134	890	960	562	302	4,120	840	610	1,050	1,640	210	82
28	140	1,030	776	704	290	2,860	850	490	3,370	821	185	76
29	140	910	634	1,500	------	1,490	704	483	2,020	498	168	76
30	137	722	642	1,060	------	2,160	620	434	890	357	160	72
31	140	------	1,150	668	------	1,890	------	392	------	296	160	------
TOTAL	10,393	66,437	45,066	21,780	16,462	76,911	44,075	15,297	29,308	17,470	17,069	3,153
MEAN	335	2,215	1,454	703	588	2,481	1,469	493	977	564	551	105
MAX	1,680	6,510	4,850	1,920	1,980	5,540	2,760	960	4,320	1,890	3,420	152
MIN	134	205	462	280	290	278	620	308	248	164	137	72
CFSM	.52	3.41	2.24	1.08	.90	3.82	2.26	.76	1.50	.87	.85	.16
IN.	.59	3.80	2.58	1.25	.94	4.40	2.52	.88	1.68	1.00	.98	.18

CAL YR 1972 TOTAL 292,188 MEAN 798 MAX 6,510 MIN 36 CFSM 1.23 IN 16.72
WTR YR 1973 TOTAL 363,421 MEAN 996 MAX 6,510 MIN 72 CFSM 1.53 IN 20.80

03266500 Mad River at Zanesfield, Ohio

LOCATION.--Lat 40°21'01", long 83°40'28", Logan County, on left bank at upstream side of bridge on County Road No. 5 (adjacent to former U.S. Highway 33), 0.8 mi (1.3 km) upstream from Sugar Creek, and 1 mi (2 km) north of Zanesfield.

DRAINAGE AREA.--7.31 mi^2 (18.9 km^2).

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,208.28 ft (368.284 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 7.83 ft^3/s (0.222 m^3/s), 14.55 in/yr (369.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 318 ft^3/s (9.01 m^3/s) Nov. 1; maximum gage height, 2.74 ft (0.835 m) Nov. 1, Aug. 11; minimum, 14 ft^3/s (0.40 m^3/s) July 17.

Period of record: Maximum discharge, 2,100 ft^3/s (59.5 m^3/s) Apr. 13, 1972, gage height, 9.54 ft (2.908 m) in gage house, from rating curve extended above 220 ft^3/s (6.23 m^3/s) on basis of critical-depth measurement of peak flow; minimum. 0.30 ft^3/s (0.008 m^3/s) Jan. 16, 1966, gage height, 0.58 ft (0.177 m), result of freezeup.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	57	9.5	17	15	5.8	21	16	4.6	2.4	3.4	2.8
2	11	109	10	13	25	7.0	17	14	4.3	3.4	3.1	2.6
3	8.6	37	11	15	18	8.5	17	16	4.0	26	2.7	2.6
4	7.9	24	11	25	13	11	28	12	5.8	14	2.5	2.5
5	7.9	16	12	14	11	13	30	11	7.0	7.0	2.5	2.6
6	7.2	13	57	10	9.6	9.9	19	10	9.0	4.9	2.3	2.8
7	6.7	54	20	8.9	8.8	9.3	16	9.7	6.7	3.7	2.3	2.6
8	6.1	55	22	8.1	8.0	8.2	19	14	5.2	3.2	2.2	2.6
9	5.5	26	24	7.6	7.2	10	24	12	4.6	2.7	2.3	2.8
10	5.2	20	19	7.1	6.6	29	26	14	3.7	2.7	2.9	2.6
11	5.2	19	13	6.6	6.2	50	21	13	3.2	2.2	26	2.5
12	10	15	18	6.2	6.0	22	30	9.7	4.6	2.1	101	2.4
13	7.2	48	45	6.0	6.0	15	32	8.6	4.3	1.9	21	2.3
14	6.2	97	19	5.8	6.4	57	22	8.3	3.4	2.1	18	4.5
15	5.7	36	16	6.0	9.0	39	17	7.6	2.9	1.9	19	2.9
16	7.5	26	12	6.4	8.0	33	18	7.3	3.4	1.7	8.8	2.4
17	6.6	19	10	7.6	6.6	67	25	7.3	3.2	1.7	6.6	2.4
18	6.3	16	11	8.6	6.0	34	24	6.7	3.2	1.7	5.8	2.5
19	6.3	19	12	9.5	5.8	28	21	12	2.9	1.9	5.3	2.5
20	6.2	23	25	7.6	5.8	23	17	9.7	5.2	7.7	9.0	2.4
21	5.9	18	23	7.2	5.6	20	15	7.6	3.2	11	5.9	2.3
22	5.8	15	21	17	5.6	18	14	7.0	2.7	14	5.0	2.5
23	7.5	13	17	11	5.5	17	17	7.0	2.4	7.6	4.6	2.7
24	6.7	12	15	8.4	5.4	18	14	6.7	2.4	5.3	4.5	2.2
25	6.4	12	14	8.2	5.6	30	12	6.4	2.2	5.0	4.4	2.1
26	6.3	13	13	8.3	5.6	32	11	6.1	2.2	23	3.9	2.1
27	5.9	12	11	9.3	5.4	21	32	6.4	5.8	7.2	3.6	2.0
28	6.6	11	11	15	5.4	17	24	5.8	4.3	4.6	3.4	2.0
29	6.3	9.9	11	11	------	23	16	5.5	3.4	3.8	3.3	2.1
30	5.6	9.9	13	8.9	------	26	19	5.5	2.7	3.5	3.2	2.1
31	5.8	------	32	8.2	------	23	------	5.2	------	3.4	3.1	------
TOTAL	219.1	854.8	558.5	308.5	232.1	724.7	618	288.1	122.5	183.3	291.6	75.4
MEAN	7.07	28.5	18.0	9.95	8.29	23.4	20.6	9.29	4.08	5.91	9.41	2.51
MAX	17	109	57	25	25	67	32	16	9.0	26	101	4.5
MIN	5.2	9.9	9.5	5.8	5.4	5.8	11	5.2	2.2	1.7	2.2	2.0
CFSM	.97	3.90	2.46	1.36	1.13	3.20	2.82	1.27	.56	.81	1.29	.34
IN.	1.11	4.35	2.84	1.57	1.18	3.69	3.14	1.47	.62	.93	1.48	.38

CAL YR 1972 TOTAL 5,520.1 MEAN 15.1 MAX 300 MIN 1.5 CFSM 2.07 IN 28.09
WTR YR 1973 TOTAL 4,476.6 MEAN 12.3 MAX 109 MIN 1.7 CFSM 1.68 IN 22.78

PEAK DISCHARGE (BASE, 200 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-1	2015	2.74	318	11-14	0300	2.50	265
11-2	0815	2.58	272	8-11	2345	2.74	313

03267000 Mad River near Urbana, Ohio

LOCATION.--Lat 40°06'27", long 83°47'57", on west line of sec. 35, T.5E., R.11N., Champaign County, on left bank at downstream side of bridge on U.S. Highway 36, 1.8 mi (2.9 km) upstream from Dugan Run, 1.8 mi (2.9 km) downstream from Muddy Creek, and 2.5 mi (4.0 km) west of Urbana.

DRAINAGE AREA.--162 mi² (420 km²).

PERIOD OF RECORD.--September 1925 to September 1931, August 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 985.22 ft (300.295 m) above mean sea level. Prior to May 18, 1930, nonrecording gage at same site and datum. May 18, 1930, to Sept. 30, 1931, nonrecording gage at site 600 ft (183 m) downstream at datum 0.36 ft (0.110 m) lower. Aug. 1 to Sept. 25, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years, 139 ft³/s (3.936 m³/s), 11.66 in/yr (296.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,560 ft³/s (72.5 m³/s) Aug. 12, gage height, 6.89 ft (2.100 m); minimum, 86 ft³/s (2.44 m³/s) Oct. 27, 30, 31.

Period of record: Maximum discharge, 8,000 ft³/s (227 m³/s) Jan. 22, 1959, gage height, 12.05 ft (3.673 m), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of estimate of peak flow based on contracted-opening measurement at site 3 mi (5 km) downstream with drainage area of 235 mi² (609 km²) adjusted to gage site by 0.8 power of the drainage-area ratio; minimum, 2.1 ft³/s (0.059 m³/s) Jan. 21, 1963, gage height, 2.33 ft (0.710 m), result of freezeup; minimum daily, 24 ft³/s (0.68 m³/s) Feb. 2, 3, 1945, Jan. 13, 1964.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height graph, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 1305: 1930(M). WSP 1505: 1956. WSP 1625: 1929. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	117	191	288	174	132	404	276	170	198	198	184
2	149	758	181	237	344	140	364	268	167	191	188	174
3	127	372	177	223	284	158	344	288	161	416	177	170
4	119	260	170	344	230	164	376	260	177	805	170	161
5	119	212	174	268	212	174	530	244	240	752	164	158
6	114	188	368	226	202	167	400	237	312	403	161	154
7	109	280	284	200	191	155	356	230	292	328	155	155
8	102	570	244	180	191	146	348	256	230	292	152	152
9	97	336	320	170	170	143	340	256	205	264	152	149
10	92	280	284	160	154	223	428	248	191	264	155	146
11	90	264	233	160	158	344	368	272	181	264	155	140
12	119	233	219	150	152	292	356	237	198	233	1.490	143
13	117	244	436	150	152	223	490	223	230	219	514	140
14	104	1.050	300	150	158	368	432	216	191	212	432	155
15	97	470	230	158	195	798	364	212	181	209	408	149
16	97	356	200	155	174	390	328	209	181	195	300	143
17	97	312	190	155	155	744	376	205	181	184	260	140
18	92	240	200	161	152	510	372	198	177	181	233	137
19	92	268	205	167	149	450	356	226	177	174	226	137
20	90	344	288	155	149	424	340	252	424	181	292	135
21	90	280	324	146	146	376	312	216	292	212	248	130
22	88	252	332	216	143	356	300	202	230	212	223	130
23	92	233	288	219	140	348	304	202	205	209	205	161
24	92	219	264	174	135	356	296	198	195	184	202	137
25	90	216	248	161	135	330	276	195	188	216	195	135
26	90	223	240	161	137	435	264	191	184	644	188	130
27	86	223	226	167	132	424	320	198	230	400	181	127
28	89	223	216	198	130	360	380	191	237	280	170	127
29	89	202	205	212	------	349	296	184	284	240	167	130
30	86	195	216	177	------	424	288	181	223	213	195	127
31	86	------	336	167	------	390	------	181	------	205	230	------
TOTAL	3.219	9.460	7.789	5.855	4.854	10.412	10.708	6.952	6.534	8.995	8.286	4.360
MEAN	104	315	251	189	173	336	357	224	218	290	267	145
MAX	216	1.050	436	344	344	798	530	288	424	805	1.490	184
MIN	86	117	170	146	130	132	264	181	161	174	152	127
CFSM	.64	1.94	1.55	1.17	1.07	2.07	2.20	1.38	1.35	1.79	1.65	.90
IN.	.74	2.17	1.79	1.34	1.11	2.39	2.46	1.60	1.50	2.07	1.90	1.00

CAL YR 1972 TOTAL 64.809 MEAN 177 MAX 1.050 MIN 62 CFSM 1.09 IN 14.88
WTR YR 1973 TOTAL 87.424 MEAN 240 MAX 1.490 MIN 86 CFSM 1.48 IN 20.08

PEAK DISCHARGE (BASE, 1,400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0800	5.91	1,780	8-12	0930	6.89	2,560
3-15	0030	5.90	1,770				

03267500 Mad River at Tremont City, Ohio

LOCATION.--Lat 40°00'25", long 83°49'24", in NW 1/4 sec. 4, R.10, T.4, Clark County, on right bank at downstream side of bridge on Tremont City Road, 500 ft (152 m) upstream from Chapman Creek, 0.8 mi (1.3 km) southeast of Tremont City, and 1.3 mi (2.1 km) downstream from Storms Creek.

DRAINAGE AREA.--264 mi^2 (684 km^2).

PERIOD OF RECORD.--July 1931 to March 1933, October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 926.40 ft (282.366 m) above mean sea level. July 23, 1931, to Mar. 31. 1933, nonrecording gage at same site at datum 2.92 ft (0.890 m) higher.

AVERAGE DISCHARGE.--9 years (1932, 1966-73) 248 ft^3/s (7.023 m^3/s).

EXTREMES.--Current year: Maximum discharge, 3,200 ft^3/s (90.6 m^3/s) Nov. 14, gage height, 10.50 ft (3.200 m); minimum, 142 ft^3/s (4.02 m^3/s) Oct. 11, 12.

Period of record: Maximum discharge, 11,900 ft^3/s (337 m^3/s), June 26, 1971, gage height, 16.12 ft (4.913 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s); minimum, 69 ft^3/s (1.95 m^3/s) Jan. 27, Feb. 1, 1971, result of freezeup.

Flood in March 1913 reached a stage of 19.2 ft (5.85 m), present datum, from data furnished by Miami Conservancy District.

REMARKS.--Records good. Water supply for the city of Springfield is pumped from wells adjacent to Mad River downstream from the station. Recharge to the well field is largely by induced infiltration from the river. At times the cone of depression of the well field extends upstream from the station. See REMARKS for station No. 03267900. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	238	362	528	304	215	627	430	278	303	266	259
2	215	1,430	344	420	594	222	534	416	267	304	256	242
3	183	660	335	395	490	236	485	435	262	939	247	232
4	177	445	330	627	386	248	641	405	317	1,060	236	228
5	187	348	326	465	344	263	884	379	456	899	229	229
6	177	313	688	390	322	259	616	365	709	546	225	227
7	170	584	495	353	308	244	523	357	559	430	222	219
8	160	1,050	506	335	308	229	512	405	405	379	218	214
9	157	561	633	313	279	225	506	421	348	351	222	216
10	148	445	550	296	267	296	666	381	314	342	222	214
11	142	430	430	288	255	530	567	486	292	345	218	209
12	263	372	420	275	248	430	578	385	324	312	1,580	207
13	215	532	913	275	248	330	794	354	359	295	765	204
14	180	2,030	550	267	255	779	666	340	296	286	682	215
15	164	884	450	267	330	1,380	539	333	278	283	534	212
16	167	660	380	259	270	757	490	325	280	270	415	203
17	164	567	350	259	230	1,490	627	317	276	260	353	200
18	160	501	340	267	240	914	649	308	271	253	322	200
19	154	500	376	279	248	806	616	335	402	249	344	199
20	148	638	622	263	248	726	567	387	987	257	503	198
21	148	517	644	252	244	622	495	329	563	304	360	195
22	148	465	616	339	233	578	465	312	428	295	307	195
23	160	435	512	372	236	539	480	311	369	281	285	227
24	164	405	470	292	233	534	475	304	339	257	282	208
25	154	400	440	275	222	589	435	310	331	306	273	202
26	151	420	420	271	222	962	410	318	315	940	259	199
27	148	435	400	279	218	715	470	334	393	527	251	195
28	157	440	376	322	215	550	633	316	370	356	242	198
29	157	395	357	348	------	528	465	300	403	310	236	203
30	154	372	372	292	------	660	440	293	331	286	293	200
31	154	------	647	275	------	588	------	292	------	273	334	------
TOTAL	5.322	17.472	14,654	10.138	7,997	17,444	16,855	10,983	11,522	12,498	11,181	6,349
MEAN	172	582	473	327	286	563	562	354	384	403	361	212
MAX	296	2,030	913	627	594	1,490	884	486	987	1,060	1,580	259
MIN	142	238	326	252	215	215	410	292	262	249	218	195

CAL YR 1972 TOTAL 112.343 MEAN 307 MAX 2,290 MIN 97
WTR YR 1973 TOTAL 142.415 MEAN 390 MAX 2,030 MIN 142

PEAK DISCHARGE (BASE, 2,100 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1000	9.51	2,330	3-15	0030	10.36	3,060
11-14	0500	10.50	3,200	8-12	1000	9.43	2,260

03267900 Mad River at St. Paris Pike at Eagle City, Ohio

LOCATION.--Lat 39°57'51", long 83°49'54", in W 1/2 sec. 1, R. 10, T.4, Clark County, on left bank at downstream side of bridge on St. Paris Pike, 0.8 mi (1.3 km) southeast of Eagle City, 1.1 mi (1.8 km) downstream from Moore Run, 3.1 mi (5.0 km) upstream from Buck Creek, and 3.3 mi (5.3 km) south of Tremont City.

DRAINAGE AREA.--310 mi^2 (803 km^2).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 904.66 ft (275.740 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 292 ft^3/s (8.269 m^3/s).

EXTREMES.--Current year: Maximum discharge, 4,030 ft^3/s (114 m^3/s) Nov. 14, gage height, 11.23 ft (3.423 m); minimum, 190 ft^3/s (5.38 m^3/s) Oct. 11.

Period of record: Maximum discharge, 9,700 ft^3/s (275 m^3/s) June 26, 1971, gage height, 16.00 ft (4.877 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s); minimum, 91 ft^3/s (2.58 m^3/s) Sept. 19, 1966.

Flood in March 1913 reached a stage of 19.8 ft (6.04 m), from data furnished by Miami Conservancy District. Flood of Jan. 21, 1959 reached a stage of 15.7 ft (4.79 m).

REMARKS.--Records good. Water supply for city of Springfield is pumped from wells, adjacent to Mad River, just upstream from station. Recharge to the well field is largely by induced infiltration from Mad River and Moore Run. The pumpage averaged 24.7 ft^3/s (0.70 m^3/s) in 1973 and is returned as sewage 1.4 mi (2.3 km) upstream from the station near Springfield. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	334	374	640	356	265	795	467	279	358	303	321
2	283	1,980	353	484	755	275	640	436	267	344	288	297
3	248	895	344	484	600	293	585	458	261	1,320	276	285
4	238	548	338	770	464	308	900	412	369	1,440	261	276
5	260	422	338	556	416	326	1,220	372	600	1,260	249	270
6	245	368	761	440	389	323	795	355	1,020	765	246	279
7	230	738	556	390	371	305	640	344	750	555	240	246
8	220	1,440	568	380	374	285	630	428	467	476	235	240
9	208	710	755	350	341	280	635	436	390	424	246	243
10	203	536	628	330	317	371	885	379	341	404	246	238
11	198	512	476	320	308	672	720	512	318	412	238	233
12	380	431	444	310	299	560	775	376	376	362	2,020	225
13	314	549	1,110	300	299	383	1,100	341	440	337	1,090	220
14	265	2,650	648	305	311	845	860	324	330	324	995	233
15	240	1,090	510	308	416	1,810	650	315	303	321	860	230
16	230	740	410	296	350	905	580	306	306	303	545	218
17	228	600	380	299	280	1,880	825	300	306	294	436	215
18	218	512	380	302	280	1,160	910	288	300	279	383	213
19	215	504	390	320	302	1,010	845	327	530	273	420	210
20	208	715	740	296	299	885	755	386	1,570	279	710	210
21	205	548	775	285	293	690	615	315	790	362	481	205
22	203	480	755	395	288	615	555	297	540	341	376	203
23	215	444	608	437	290	555	600	297	445	315	337	238
24	215	416	536	350	283	535	575	288	390	288	324	215
25	210	401	492	323	273	685	503	420	408	351	312	208
26	205	419	476	317	275	1,270	458	358	365	975	294	203
27	203	434	437	338	270	890	585	383	565	690	282	200
28	213	456	416	395	265	645	845	337	485	424	273	200
29	208	404	401	431	------	625	545	315	517	362	264	210
30	203	386	419	353	------	815	499	303	400	324	318	208
31	208	------	813	332	------	735	------	300	------	312	432	------
TOTAL	7,299	20,662	16,631	11,836	9,764	21,201	21,525	11,175	14,428	15,274	13,980	6,992
MEAN	235	689	536	382	349	684	718	360	481	493	451	233
MAX	380	2,650	1,110	770	755	1,880	1,220	512	1,570	1,440	2,020	321
MIN	198	334	338	285	265	265	458	288	261	273	235	200

CAL YR 1972 TOTAL 132,948 MEAN 363 MAX 2,780 MIN 112
WTR YR 1973 TOTAL 170,767 MEAN 468 MAX 2,650 MIN 198

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1000	10.26	3,190	6-19	2300	9.78	2,750
11-14	0630	11.23	4,030	8-12	1200	9.87	2,880
3-15	0100	10.77	3,610				

03267950 Buck Creek near New Moorefield, Ohio

LOCATION.--Lat 40°00'38", long 83°41'56", in SE 1/4 sec. 5, R.10, T.5, Clark County, on right bank at downstream side of bridge on State Highway 4, 2,000 ft (610 m) upstream from East Fork Buck Creek, 1.7 mi (2.7 km) northeast of New Moorefield, and 2.6 mi (4.2 km) downstream from Dugan Ditch.

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage 1,025.10 ft (312.450 m) above mean sea level. Prior to May 23, 1967 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--6 years, 27.1 ft³/s (0.767 m³/s), 12.06 in/yr (306.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 426 ft³/s (12.1 m³/s) Aug. 12, gage height, 6.95 ft (2.118 m); minimum daily discharge, 17 ft³/s (0.48 m³/s) Oct. 30, 31.

Period of record: Maximum discharge, 1,190 ft³/s (33.7 m³/s) May 25, 1970, gage height, 9.09 ft (2.771 m), from rating extended above 140 ft³/s (3.96 m³/s), minimum, 6.2 ft³/s (0.18 m³/s) Feb. 17, 1968, result of freezeup.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	23	45	56	40	30	48	39	33	35	37	34
2	24	127	44	48	67	30	44	38	33	35	37	33
3	23	71	44	49	53	30	41	38	32	145	37	32
4	22	58	44	66	45	30	54	37	39	110	36	32
5	23	53	44	52	42	30	60	36	65	70	36	33
6	22	51	56	47	40	30	47	35	105	46	35	35
7	21	68	49	45	39	29	44	35	63	42	36	32
8	21	99	56	44	39	29	45	36	44	41	36	31
9	21	60	66	43	37	28	48	35	39	41	37	31
10	20	53	54	42	36	31	56	34	38	41	38	31
11	20	53	47	42	35	37	49	35	36	41	37	31
12	29	50	46	41	35	37	56	34	35	40	145	31
13	24	60	70	41	34	32	67	33	40	39	49	30
14	22	172	53	41	35	46	51	33	35	39	91	31
15	21	66	46	41	37	71	45	33	34	39	53	31
16	21	56	43	41	35	49	44	32	33	39	42	31
17	20	52	41	41	37	71	46	32	36	38	39	31
18	20	51	40	41	33	52	58	32	40	38	37	31
19	20	51	43	42	32	53	51	33	39	38	37	30
20	19	60	59	41	32	54	46	32	60	39	42	31
21	19	53	60	39	32	52	43	32	48	44	36	31
22	19	49	58	51	31	48	41	31	43	40	36	31
23	20	48	51	54	31	46	42	31	38	39	35	30
24	19	47	48	44	31	45	41	31	36	39	35	30
25	18	46	46	41	31	47	39	44	40	41	35	30
26	18	47	46	41	31	70	39	38	36	41	34	29
27	18	47	46	40	31	58	52	38	52	39	34	29
28	18	48	44	43	31	48	51	36	46	39	33	29
29	18	46	44	46	------	46	41	34	41	38	33	30
30	17	46	44	41	------	53	40	34	37	38	34	29
31	17	------	69	39	------	48	------	34	------	38	38	------
TOTAL	642	1,811	1,546	1,383	1,032	1,360	1,429	1,075	1,296	1,432	1,322	930
MEAN	20.7	60.4	49.9	44.6	36.9	43.9	47.6	34.7	43.2	46.2	42.6	31.0
MAX	29	172	70	66	67	71	67	44	105	145	145	35
MIN	17	23	40	39	31	28	39	31	32	35	33	29
CFSM	.68	1.98	1.64	1.46	1.21	1.44	1.56	1.14	1.42	1.51	1.40	1.02
IN.	.78	2.21	1.89	1.69	1.26	1.66	1.74	1.31	1.58	1.75	1.61	1.13

CAL YR 1972 TOTAL 11,271 MEAN 30.8 MAX 242 MIN 13 CFSM 1.01 IN 13.75
WTR YR 1973 TOTAL 15,258 MEAN 41.8 MAX 172 MIN 17 CFSM 1.37 IN 18.61

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1100	6.05	282	5-25	1900	5.41	189	8-12	0500	6.95	426
11-8	0015	5.12	152	6-6	1200	5.18	157	8-14	1215	5.49	168
11-14	0600	6.27	324	7-3 or 4	----	6.50	370				

03267960 East Fork Buck Creek near New Moorefield, Ohio

LOCATION.--Lat 40°00'22", long 83°41'37", in SE 1/4 sec. 5, R.10, T.5, Clark County, on right bank at downstream side of bridge on Baldwin Lane, 1,500 ft (457 m) upstream from mouth, 0.6 mi (1.0 km) downstream from unnamed left bank tributary, and 1.6 mi (2.6 km) northeast of New Moorefield.

DRAINAGE AREA.--28.7 mi^2 (74.3 km^2).

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage 1,022.71 ft (311.722 m) above mean sea level. Prior to May 23, 1967, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--6 years, 35.5 ft^3/s (1.005 m^3/s), 16.80 in/yr (426.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 938 ft^3/s (26.6 m^3/s) July 3, gage height, 9.31 ft (2.838 m); minimum, 16 ft^3/s (0.45 m^3/s) Sept. 24, 25, 26, 27.

Period of record: Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Aug. 9, 1969, gage height, 9.98 ft (3.042 m), from rating curve extended above 290 ft^3/s (8.21 m^3/s), minimum, 6.2 ft^3/s (0.18 m^3/s) part of each day June 13-15, 21, July 19-22, 24, Aug. 1-3, 5-7, 11, 1971.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	65	39	77	65	31	73	53	43	35	34	21
2	24	283	42	57	132	32	59	52	40	35	33	20
3	21	75	39	80	79	35	54	53	37	376	32	20
4	20	52	38	119	58	35	109	49	143	278	31	20
5	24	43	37	65	52	39	91	46	184	96	29	21
6	22	39	124	51	47	36	66	45	179	67	29	26
7	20	117	54	45	44	34	58	45	86	58	28	21
8	19	143	128	40	44	32	76	49	58	50	27	20
9	18	62	116	36	38	33	90	46	48	48	28	21
10	17	53	78	33	35	70	95	43	43	46	31	20
11	17	61	55	32	34	85	76	42	40	43	31	20
12	100	46	60	31	33	57	116	40	103	41	92	19
13	35	127	134	30	33	46	101	39	59	40	42	19
14	28	278	67	30	35	98	72	39	42	39	137	19
15	24	80	57	29	58	98	62	38	39	39	49	18
16	23	61	46	29	41	64	58	38	40	36	36	18
17	21	52	43	30	36	137	118	38	46	35	32	18
18	20	46	42	33	35	97	121	37	50	34	29	18
19	20	52	47	41	35	85	89	40	49	34	29	18
20	19	63	132	35	34	75	74	39	203	35	29	18
21	19	48	96	34	34	61	63	36	58	61	27	17
22	18	44	81	94	33	54	58	35	46	45	26	18
23	20	40	64	68	32	50	63	35	41	39	25	18
24	18	39	57	44	31	48	57	35	39	36	25	17
25	18	38	52	40	31	61	54	201	58	52	24	17
26	17	40	51	39	32	147	52	140	37	45	23	17
27	17	43	47	47	31	85	135	98	87	39	22	17
28	17	45	46	64	31	62	87	67	56	35	22	16
29	17	39	47	56	------	83	63	55	42	35	22	20
30	17	39	49	44	------	97	57	53	37	34	23	20
31	17	------	172	41	------	79	------	50	------	34	25	------
TOTAL	718	2,213	2,140	1,494	1,223	2,051	2,347	1,676	2,033	1,921	1,072	574
MEAN	23.2	73.8	69.0	48.2	43.7	66.2	78.2	54.1	67.8	62.0	34.6	19.1
MAX	100	283	172	119	132	147	135	201	203	376	137	26
MIN	17	38	37	29	31	31	52	35	37	34	22	17
CFSM	.81	2.57	2.40	1.68	1.52	2.31	2.72	1.89	2.36	2.15	1.21	.67
IN.	.93	2.87	2.77	1.94	1.59	2.66	3.04	2.17	2.64	2.49	1.39	.74

CAL YR 1972 TOTAL 14,194 MEAN 38.8 MAX 378 MIN 11 CFSM 1.35 IN 18.40
WTR YR 1973 TOTAL 19,462 MEAN 53.3 MAX 376 MIN 17 CFSM 1.86 IN 25.23

PEAK DISCHARGE (BASE, 350 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-12	0615	6.89	400	3-14	2100	6.62	354	6-6	1130	7.25	480
11-2	0930	8.62	765	4-17	2115	7.54	538	6-12	1915	7.70	570
11-14	0345	7.96	622	5-25	2115	8.77	802	6-20	0115	8.53	742
12-6	0900	6.91	412	6-4	2215	6.90	410	7-3	2130	9.31	938
12-31	1015	7.42	514	6-5	0600	7.80	590	8-14	1015	6.68	366

03268500 Beaver Creek near Springfield, Ohio

LOCATION.--Lat 39°56'26", long 83°44'56", in sec. 18. R.9, T.5, Clark County, on right bank at upstream side of Croft Road Bridge, 0.8 mi (1.3 km) upstream from mouth, 2.1 mi (3.4 km) downstream from Sinking Creek, and 3.5 mi (5.6 km) east of Springfield.

DRAINAGE AREA.--39.2 mi² (102 km²) (revised).

PERIOD OF RECORD.--October 1942 to September 1958, December 1972 to September 1973.

GAGE.--Water-stage recorder. Datum of gage is 954.64 ft (290.974 m) above mean sea level (levels by Corps of Engineers). October 1942 to September 1958 at same site at datum 960.98 ft (292.907 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--16 years (1943-58), 39.0 ft³/s (1.104 m³/s), 13.51 in/yr (343.2 mm/yr).

EXTREMES.--Maximum discharge during the period December 1972 to September 1973, 1,160 ft³/s (32.9 m³/s) June 12, gage height, 8.86 ft (2.701 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 20-29.

Period of record: Maximum discharge, 4,980 ft³/s (141 m³/s) Feb. 13, 1948, gage height, 7.95 ft (2.423 m), in gage well, datum then in use, from rating curve extended above 2,100 ft³/s (59.5 m³/s); minimum, 3.3 ft³/s (0.093 m³/s) Jan. 25, 1945.

Flood of Jan. 21, 1959, reached a stage of 9.0 ft (2.74 m), datum then in use, from floodmark, discharge 4,950 ft³/s (140 m³/s), on basis of slope-area measurement of peak flow.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1943-45, 1948(M), 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			40	121	44	27	99	55	38	40	29	25
2			46	66	192	28	74	50	33	37	28	22
3			57	66	118	31	62	57	30	221	27	20
4			48	195	73	33	117	47	159	369	25	18
5			44	87	57	37	151	42	339	137	24	18
6			130	50	48	39	85	40	192	64	23	19
7			82	40	41	36	66	38	116	54	22	17
8			148	34	37	33	79	44	68	45	22	17
9			201	31	34	31	87	44	49	40	22	17
10			114	30	31	70	137	38	40	37	35	17
11			70	29	29	93	100	36	35	36	48	17
12			61	28	27	78	110	33	294	32	45	16
13			175	27	27	52	151	33	333	30	35	16
14			90	27	30	83	82	32	86	30	68	16
15			65	26	52	199	64	32	59	34	59	15
16			44	26	40	87	55	30	57	30	38	14
17			38	26	34	208	71	29	65	28	33	14
18			33	27	31	138	228	29	96	26	30	14
19			38	28	30	117	146	32	59	26	29	14
20			156	30	30	97	102	40	272	27	34	14
21			141	28	29	72	73	33	97	182	30	13
22			109	62	29	59	61	32	64	115	27	13
23			77	83	29	52	64	30	50	66	24	13
24			63	51	28	48	61	31	43	49	23	13
25			54	42	27	55	52	32	40	55	23	13
26			58	39	27	219	49	41	36	54	21	13
27			48	45	26	156	134	52	76	43	19	13
28			44	63	27	82	160	51	98	36	19	13
29			41	66	------	98	79	42	73	33	17	19
30			44	45	------	204	62	42	48	31	17	23
31		------	195	39	------	108	------	48	------	29	37	------
TOTAL			2,546	1,559	1,229	2,666	2,861	1,215	3,045	2,036	933	486
MEAN			82.1	50.3	43.9	86.0	95.4	39.2	102	65.7	30.1	16.2
MAX			201	195	192	219	228	57	339	369	68	25
MIN			33	26	27	27	49	29	30	26	17	13
CFSM			2.09	1.28	1.12	2.19	2.43	1.00	2.60	1.68	.77	.41
IN.			2.42	1.48	1.17	2.53	2.72	1.15	2.89	1.93	.89	.46

PEAK DISCHARGE (BASE, 400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-5	1015	7.12	451	6-20	0815	7.07	436
6-12	2230	8.86	1,160	7-4-	0045	7.68	638

03269000 Buck Creek at Springfield, Ohio

LOCATION.--Lat 39°55'57", long 83°48'59", on west line sec. 35, R.9, T.5, Clark County, on right bank at downstream side of Plum Street Bridge in Springfield, 0.3 mi (0.5 km) upstream from concrete control dam, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--139 mi² (360 km²) (revised).

PERIOD OF RECORD.--July 1914 to September 1921, May 1924 to September 1949, annual maximum, water years 1913, 1959-72 and July to September 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 906.85 ft (276.408 m) above mean sea level, adjustment of 1912. July 14, 1914 to September 30, 1921 nonrecording gage at present site, at datum 1 ft (0 m) higher. May 23, 1924 to September 30, 1928 nonrecording gage 0.5 mi (0.8 km) upstream, at datum 6.17 ft (1.881 m) higher. October 1, 1928 to September 30, 1949 at present site and datum.

AVERAGE DISCHARGE.--32 years (1914-21, 1924-49), 123 ft³/s (3.483 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,500 ft³/s (42.5 m³/s) Sept. 5, gage height, 4.88 ft (1.487 m); minimum during period July to September, 43 ft³/s (1.22 m³/s) Aug. 27, 28, gage height, 2.32 ft (0.707 m).

Period of record (1914-21, 1924-49, 1973): Maximum discharge, 13,000 ft³/s (368 m³/s) Feb. 26, 1929, gage height, 14.3 ft (4.36 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope area determinations and computed flow over dam; minimum, 2.1 ft³/s (0.059 m³/s) July 30, 1936; minimum daily, 4.0 ft³/s (0.11 m³/s) July 30, 1936.

Flood of Mar. 25, 1913 reached a stage of 13.3 ft (4.05 m) present datum, discharge, 11,100 ft³/s (314 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Flow partly regulated by unfinished C. J. Brown Reservoir since 1972. Records of discharge do not include minor diversion, less that 2 ft³/s (0.057 m³/s), from pool for use in municipal park and returned to stream downstream from control. Prior to 1958 diversion upstream from station for municipal supply of city of Springfield. Prior to 1936 part of sewage return flow bypassed station; subsequent to 1936 all sewage return flow bypassed station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										161	130	110
2										173	108	102
3										634	153	95
4										1,060	113	92
5										492	106	220
6										271	103	122
7										211	100	101
8										183	97	93
9										168	102	97
10										118	124	96
11										152	140	90
12										147	292	87
13										140	175	85
14										152	336	85
15										143	260	84
16										130	164	80
17										125	141	80
18										120	129	81
19										117	131	79
20										163	160	80
21										412	131	78
22										277	80	78
23										160	58	78
24										201	195	77
25										218	111	76
26										154	103	74
27										152	71	61
28										185	131	50
29					------					133	98	158
30					------					106	104	103
31		------			------		------		------	105	138	------
TOTAL										6,963	4,284	2,792
MEAN										225	138	93.1
MAX										1,060	336	220
MIN										105	58	50

03269500 Mad River near Springfield, Ohio

LOCATION.--Lat 39°55'23", long 83°52'13", in NW 1/4 sec. 16, R.9, T.4, Clark County, on right bank 150 ft (46 m) downstream from Rock Run, 300 ft (91 m) downstream from bridge on Lower Valley Pike, 2 mi (3 km) downstream from Buck Creek, and 3 mi (5 km) west of Springfield.

DRAINAGE AREA.--490 mi² (1,269 km²).

PERIOD OF RECORD.--January 1904 to March 1906 (fragmentary), February 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 881.42 ft (268.657 m) above mean sea level, adjustment of 1912. Jan. 1, 1904, to Mar. 31, 1906, nonrecording gage at site 0.3 mi (0.5 km) downstream at different datum. Feb. 1, 1914, to Feb. 29, 1924, nonrecording gage at site 1.8 mi (2.9 km) upstream at datum 6.35 ft (1.936 m) higher. Mar. 1, 1924, to July 31, 1925, nonrecording gage at site 300 ft (91 m) upstream at same datum.

AVERAGE DISCHARGE.--60 years, (1904-05, 1914-73), 480 ft³/s (13.59 m³/s), 13.30 in/yr (337.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,090 ft³/s (144 m³/s) June 20, gage height, 7.93 ft (2.417 m); minimum, 246 ft³/s (6.97 m³/s) Oct. 20.

Period of record: Maximum discharge, 30,500 ft³/s (864 m³/s) Jan. 21, 1959, gage height, 15.76 ft (4.804 m), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of slope-area and contracted-opening measurements of peak flow; minimum, 30 ft³/s (0.85 m³/s) Sept. 15, 1904.

Flood of March 25, 1913 reached a stage of 16.9 ft (5.15 m), present datum, discharge, 55,400 ft³/s (1,570 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Some regulation by unfinished C. J. Brown Reservoir, 8.3 mi (13.4 km) upstream on Buck Creek, since 1972. Occasional low-flow regulation by power plant 2.3 mi (3.7 km) upstream; daily flows are not affected appreciably. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 603: 1924. WSP 823: 1929(M). WSP 1305: 1914(M), 1916-17(M), 1922-23(M), 1925(M). WSP 1625: 1924(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	674	690	634	1,210	682	467	1,000	818	523	594	530	492
2	481	2,870	602	906	1,400	481	1,020	770	495	570	488	444
3	400	1,540	602	874	1,190	509	906	826	474	1,780	516	425
4	389	986	586	1,420	890	530	1,010	706	1,010	2,390	460	416
5	454	746	578	1,070	794	586	1,590	570	1,510	1,710	436	752
6	406	634	1,160	834	730	586	1,180	600	1,710	1,090	430	503
7	367	1,150	962	730	682	538	990	658	1,350	858	419	414
8	340	2,260	1,150	682	698	502	910	866	898	746	412	390
9	320	1,200	1,430	634	618	488	1,090	754	746	682	424	408
10	310	946	1,130	594	562	762	1,320	666	650	610	454	392
11	305	906	866	578	538	1,070	1,170	754	602	698	467	380
12	866	770	818	538	523	1,070	1,030	642	866	586	2,070	369
13	594	982	1,670	530	523	770	1,520	586	1,440	554	1,270	358
14	448	3,920	1,120	523	570	946	1,460	578	786	570	1,370	365
15	389	1,690	986	530	802	2,590	1,050	562	666	554	1,190	364
16	373	1,200	746	516	698	1,290	922	546	650	502	834	345
17	367	978	666	516	570	2,560	1,190	530	954	474	722	343
18	345	834	658	530	546	1,730	1,450	516	914	460	621	340
19	340	850	722	594	530	1,530	1,310	594	1,130	460	657	338
20	330	1,100	1,330	530	530	1,360	1,190	650	3,040	574	987	337
21	310	898	1,330	509	516	1,140	1,170	546	1,340	1,110	759	331
22	310	794	1,230	794	502	1,010	1,160	516	978	842	579	324
23	345	714	1,020	898	502	946	1,030	509	818	618	483	351
24	325	674	890	682	488	950	914	502	746	626	639	336
25	320	658	810	602	474	1,130	826	706	786	802	524	328
26	315	698	802	586	488	1,990	786	978	682	1,120	485	321
27	310	730	746	626	474	1,550	890	930	1,050	930	443	304
28	330	770	698	762	460	1,070	1,030	754	946	754	485	287
29	320	682	666	866	------	1,030	1,010	674	850	602	443	433
30	310	658	690	674	------	1,510	842	634	674	538	491	355
31	335	------	1,390	618	------	1,160	------	594	------	509	671	------
TOTAL	12,028	33,508	28,608	21,956	17,980	33,851	32,966	20,335	29,284	24,917	20,758	11,545
MEAN	388	1,117	923	708	642	1,092	1,099	656	976	804	670	385
MAX	866	3,920	1,670	1,420	1,400	2,590	1,590	978	3,040	2,390	2,070	752
MIN	305	634	578	509	460	467	786	502	474	460	412	287
CFSM	.79	2.28	1.88	1.44	1.31	2.23	2.24	1.34	1.99	1.64	1.37	.79
IN.	.91	2.54	2.17	1.67	1.37	2.57	2.50	1.54	2.22	1.89	1.58	.88

CAL YR 1972 TOTAL 214,929 MEAN 587 MAX 3,920 MIN 200 CFSM 1.20 IN 16.32
WTR YR 1973 TOTAL 287,736 MEAN 788 MAX 3,920 MIN 287 CFSM 1.61 IN 21.84

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1300	6.64	4,050	6-20	0080	7.93	5,090
11-14	0930	7.83	5,000				

03270000 Mad River near Dayton, Ohio

LOCATION.--Lat 39°47'50", long 84°05'19", in SW 1/4 sec. 7, R.8, T.2, Greene County, on left bank in retarding basin 300 ft (91 m) upstream from Huffman Dam, 2.3 mi (3.7 km) downstream from Mud Run, and 6.2 mi (10.0 km) northeast of Dayton.

DRAINAGE AREA.--635 mi² (1,645 km²).

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 776.96 ft (236.817 m) above mean sea level, adjustment of 1912. Jan. 21, 1959 to Dec. 14, 1967, at site 900 ft (274 m) downstream, at datum 77.01 ft (23.473 m) lower. See WSP 1725 for history of changes prior to Jan. 21, 1959.

AVERAGE DISCHARGE.--59 years, 615 ft³/s (17.42 m³/s), 13.15 in/yr (334.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,840 ft³/s (165 m³/s) June 20, gage height, 12.44 ft (3.792 m); minimum, 342 ft³/s (9.69 m³/s) Oct. 21, 22, 23, 31.

Period of record: Maximum discharge, 21,200 ft³/s (600 m³/s) Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft (26.79 m) Feb. 26. 1929 at site and datum then in use; minimum discharge, 91 ft³/s (2.58 m³/s) Aug. 6. 9, 1934, but may have been less during period 1921-24.

Flood of Mar. 25, 1913 reached a stage of 14.0 ft (4.27 m), original site and datum, discharge, 75,700 ft³/s (2,140 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good. Flood flows affected by backwater from Huffman retarding dam beginning in 1921. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 10 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 453: 1915. WSP 743: 1929-32. WSP 1305: 1916(M), 1925(M), 1930-32(M). WSP 1908: 1922(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	996	784	789	1,690	766	532	1,690	1,050	721	775	672	631
2	649	2,800	744	1,180	1,460	532	1,400	978	667	703	640	550
3	532	2,510	730	1,030	1,520	564	1,220	1,010	631	1,770	595	510
4	523	1,360	703	1,720	1,140	604	1,540	946	1,140	2,620	636	501
5	685	1,010	694	1,390	973	654	2,330	865	1,920	2,390	559	586
6	586	843	1,110	1,050	888	694	1,630	816	2,340	1,450	537	1,000
7	501	1,090	1,330	892	825	645	1,320	789	2,050	1,100	532	568
8	447	3,060	1,270	807	825	609	1,310	960	1,270	942	514	514
9	406	1,790	1,970	757	748	582	1,290	1,020	1,020	847	510	523
10	384	1,270	1,540	703	676	816	1,650	856	870	906	564	514
11	370	1,210	1,180	694	640	1,130	1,470	892	789	879	586	492
12	775	1,030	1,030	658	618	1,400	1,380	829	775	766	1,580	483
13	807	1,070	1,910	636	618	978	1,920	757	1,680	690	1,630	465
14	582	4,470	1,570	618	636	973	1,570	735	964	712	1,680	460
15	487	2,790	1,200	618	892	2,810	1,280	735	784	816	1,560	478
16	442	1,670	1,000	618	883	1,680	1,150	703	780	654	1,050	451
17	429	1,320	843	609	690	3,140	1,310	694	1,130	613	838	442
18	402	1,100	843	618	663	2,450	1,970	672	1,930	582	739	442
19	393	1,040	870	672	640	2,080	1,850	721	1,100	559	681	433
20	375	1,410	1,570	658	631	1,780	1,580	843	4,700	645	1,260	433
21	350	1,200	1,770	600	613	1,460	1,310	730	2,210	1,660	1,030	433
22	342	1,040	1,600	793	591	1,270	1,170	690	1,390	1,490	757	424
23	379	942	1,330	1,040	586	1,170	1,180	667	1,090	960	618	438
24	370	874	1,140	856	568	1,100	1,180	672	937	870	645	442
25	362	820	1,040	748	550	1,210	1,060	667	1,000	1,240	667	420
26	354	843	996	708	550	2,750	996	1,240	856	1,410	577	402
27	350	892	942	717	555	2,350	1,120	1,200	1,310	1,330	541	393
28	370	933	879	834	541	1,510	1,690	1,020	1,350	1,010	519	358
29	362	865	825	1,080	------	1,380	1,240	888	1,150	802	537	433
30	350	807	825	847	------	1,890	1,110	843	915	721	550	523
31	362	------	1,450	762	------	1,600	------	793	------	658	861	------
TOTAL	14,722	42,843	35,693	26,603	21,286	42,343	42,916	26,281	39,479	32,570	24,665	14,742
MEAN	475	1,428	1,151	858	760	1,366	1,431	848	1,316	1,051	796	491
MAX	996	4,470	1,970	1,720	1,520	3,140	2,330	1,240	4,700	2,620	1,680	1,000
MIN	342	784	694	600	541	532	996	667	631	559	510	358
CFSM	.75	2.25	1.81	1.35	1.20	2.15	2.25	1.34	2.07	1.66	1.25	.77
IN.	.86	2.51	2.09	1.56	1.25	2.48	2.51	1.54	2.31	1.91	1.44	.86

CAL YR 1972 TOTAL 270,374 MEAN 739 MAX 4,470 MIN 214 CFSM 1.16 IN 15.84
WTR YR 1973 TOTAL 364,143 MEAN 998 MAX 4,700 MIN 342 CFSM 1.57 IN 21.33

03270500 Great Miami River at Dayton, Ohio

LOCATION.--Lat 39°45'55", long 84°11'51", in sec. 10, R.7, T.1, Montgomery County, on left bank 1,000 ft (305 m) downstream from Main Street Bridge in Dayton, 0.7 mi (1.1 km) upstream from Wolf Creek, and 0.8 mi (1.3 km) downstream from Mad River.

DRAINAGE AREA.--2,511 mi^2 (6,503 km^2).

PERIOD OF RECORD.--April to September 1905, January to September 1906, January 1907 to December 1909 (gage heights only), April 1913 to current year. Monthly discharge only for October 1919 to September 1921, published in WSP 1305. Gage-height records collected at Main Street Bridge since January 1892 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Dayton.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft (213.360 m) above mean sea level, adjustment of 1912. Prior to Oct. 1, 1921 nonrecording gage at Main Street Bridge at datum 23.73 ft (7.233 m) higher. Oct. 1, 1921, to July 24, 1931, nonrecording gage at Main Street Bridge at datum 21.00 ft (6.401 m) higher.

AVERAGE DISCHARGE.--44 years (1929-73), 2,087 ft^3/s (59.10 m^3/s).

EXTREMES.--Current year: Maximum discharge, 23,100 ft^3/s (654 m^3/s) Nov. 14, gage height, 29.72 ft (9.059 m); minimum, 562 ft^3/s (15.9 m^3/s) Sept. 29.

Period of record: Maximum discharge, 60,900 ft^3/s (1,720 m^3/s) Jan. 22, 1959, gage height, 35.45 ft (10.805 m) in gage well, from graph based on gage readings; 36.0 ft (10.97 m), from outside floodmarks; minimum, 78 ft^3/s (2.21 m^3/s) Sept. 26, 1941.

Flood of Mar. 26, 1913 reached a stage of 29.0 ft (8.84 m), site and datum then in use, discharge, 250,000 ft^3/s (7,080 m^3/s), computed by Miami Conservancy District.

REMARKS.--Records good. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi (10.5 km) upstream, on Stillwater River 10.5 mi (16.9 km) upstream, on Great Miami River 11.5 mi (18.5 km) upstream, and on Loramie Creek 40 mi (64 km) upstream. Also see REMARKS for station No. 03261500 and 03261950. Water is diverted 6 mi (10 km) upstream from station for use in Dayton; most of return flow from diversions bypasses station in Dayton sewer systems. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 1385: 1917. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,740	1,870	2,970	6,320	2,720	1,280	8,320	3,320	1,900	2,860	1,570	1,280
2	4,370	10,600	2,710	4,310	4,550	1,280	7,240	3,200	1,610	2,270	1,430	1,070
3	2,680	17,500	2,480	3,500	6,950	1,370	5,550	3,030	1,460	5,230	1,310	978
4	2,330	13,200	2,380	5,310	5,390	1,810	5,780	2,740	3,000	8,360	1,290	964
5	3,550	7,750	2,320	6,420	3,950	2,530	10,200	2,450	6,400	10,500	1,140	934
6	3,680	4,700	5,510	4,320	3,300	4,150	8,080	2,230	12,700	7,360	1,070	1,520
7	2,690	4,670	13,900	3,060	2,900	3,280	5,740	2,040	11,900	4,640	1,020	1,030
8	2,010	13,400	12,300	2,640	2,830	4,820	5,020	2,870	7,630	3,160	965	862
9	1,650	13,500	10,100	2,410	2,660	3,870	4,730	3,310	4,910	2,420	952	881
10	1,390	8,800	7,600	2,120	2,290	6,700	5,790	3,060	3,610	2,320	1,030	908
11	1,260	6,290	5,830	1,970	1,810	12,400	5,860	3,770	2,850	3,180	1,040	833
12	1,730	5,010	4,460	1,880	1,660	15,200	5,250	3,820	2,410	2,210	4,580	825
13	3,060	4,980	7,910	1,790	1,640	12,200	8,220	3,000	3,760	1,700	11,600	794
14	2,370	17,900	9,550	1,710	1,670	8,680	7,190	2,590	3,840	1,640	9,790	788
15	1,690	22,100	6,280	1,610	2,500	13,200	5,280	2,280	2,720	1,630	12,600	811
16	1,340	17,300	4,560	1,540	3,750	11,600	4,240	2,010	2,100	1,430	14,000	834
17	1,200	12,100	3,280	1,500	2,680	16,000	5,310	1,850	4,260	1,270	7,510	793
18	1,100	7,120	3,290	1,490	2,250	18,800	7,750	1,750	5,940	1,110	4,900	745
19	1,050	5,040	3,370	1,620	2,060	15,900	7,440	1,920	3,090	1,050	3,490	718
20	936	7,150	5,040	1,560	1,820	12,400	6,490	2,440	8,960	1,320	5,440	714
21	859	6,920	6,970	1,470	1,730	8,410	5,210	2,670	6,410	3,300	5,890	706
22	819	5,140	7,260	1,900	1,610	6,390	4,050	2,150	3,940	3,330	3,590	692
23	891	4,130	6,470	3,250	1,570	5,340	6,210	1,880	2,870	2,580	2,360	691
24	860	3,490	5,420	3,980	1,490	4,640	7,730	1,770	2,320	2,630	1,930	717
25	849	3,150	4,910	2,850	1,380	4,840	5,250	1,800	2,210	5,210	1,750	710
26	845	3,190	4,490	2,540	1,350	10,400	3,820	3,520	2,000	6,960	1,520	659
27	824	3,540	4,020	2,570	1,340	12,300	3,650	3,530	3,850	6,770	1,380	627
28	844	3,920	3,530	2,690	1,310	8,630	4,850	2,840	8,030	4,140	1,250	580
29	827	3,750	3,060	4,750	------	6,010	4,430	2,500	6,220	2,820	1,220	683
30	802	3,190	2,970	4,170	------	7,480	3,550	2,260	4,190	2,150	1,210	714
31	870	------	4,420	2,990	------	7,430	------	2,070	------	1,730	1,890	------
TOTAL	56,116	241,400	169,360	90,440	71,160	249,340	178,230	80,670	137,090	107,280	110,717	25,061
MEAN	1,810	8,047	5,463	2,917	2,541	8,043	5,941	2,602	4,570	3,461	3,572	835
MAX	6,740	22,100	13,900	6,420	6,950	18,800	10,200	3,820	12,700	10,500	14,000	1,520
MIN	802	1,870	2,320	1,470	1,310	1,280	3,550	1,750	1,460	1,050	952	580

CAL YR 1972 TOTAL 1,192,559 MEAN 3,258 MAX 22,100 MIN 314
WTR YR 1973 TOTAL 1,516,864 MEAN 4,156 MAX 22,100 MIN 580

03270800 Wolf Creek at Trotwood, Ohio

LOCATION.--Lat 39°47'39", long 84°18'36", Montgomery County, on right bank 350 ft (107 m) downstream from Union Road Bridge, 700 ft (213 m) downstream from unnamed right bank tributary, 0.2 mi (0.3 km) south of Trotwood, and 0.3 mi (0.5 km) upstream from confluence with North Branch.

DRAINAGE AREA.--22.7 mi² (58.8 km²).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 826.28 ft (251.850 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 19.7 ft³/s (0.558 m³/s), 11.78 in/yr (299.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,720 ft³/s (48.7 m³/s) June 5, gage height, 4.82 ft (1.469 m); minimum daily discharge, 1.6 ft /s (0.045 m³/s) Sept. 24, 25, 27.

Period of record: Maximum discharge, 2,970 ft³/s (84.1 m³/s) May 24, 1968, gage height, 6.47 ft (1.972 m); no flow all or part of each day Sept. 8-17, Oct. 3, 1964, Sept. 16-19, 1967.

Maximum discharge during flood in January 1959, about 3,900 ft³/s (110 m³/s), gage height, 8.0 ft (2.44 m), computed by Miami Conservancy District on basis of estimate of peak flow based on contracted-opening measurement at site 1.1 mi (1.8 km) downstream with drainage area of 48.2 mi² (125 km²), adjusted to gage site by 0.8 power of the drainage-area ratio. Flood in March 1913 reached a stage of 9.4 ft (2.87 m), computed by Miami Conservancy District.

REMARKS.--Records good except those for the winter period, which are fair. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	138	19	35	25	9.8	61	23	15	9.8	7.3	2.2
2	3.9	300	16	23	61	11	44	23	13	7.9	6.2	1.9
3	2.9	69	16	46	36	13	35	35	12	7.3	5.2	1.9
4	21	32	15	86	24	14	119	23	65	9.1	4.3	1.9
5	34	21	15	39	20	32	75	18	401	7.9	3.9	1.9
6	13	17	104	21	17	23	44	17	690	5.2	3.6	1.9
7	8.5	178	42	16	14	27	34	16	161	4.8	3.2	2.2
8	6.2	161	144	14	12	23	45	84	67	4.8	2.9	2.2
9	4.8	54	109	12	11	20	54	41	40	3.9	3.9	3.2
10	3.9	40	69	11	10	30	64	26	23	3.9	5.7	2.9
11	3.6	43	36	10	8.8	288	45	20	17	3.9	5.7	2.5
12	5.2	29	39	9.6	7.8	79	57	17	16	3.2	4.3	2.2
13	3.9	196	118	9.2	7.8	43	52	15	12	3.2	4.3	2.2
14	3.6	462	47	9.0	11	162	34	14	9.1	10	16	2.5
15	2.9	103	30	9.2	45	156	30	13	7.9	6.7	47	2.5
16	2.9	57	22	8.5	26	197	28	12	8.5	3.6	12	2.2
17	2.9	36	18	8.0	18	387	59	11	61	3.2	6.2	1.9
18	2.9	26	17	8.0	13	125	118	9.8	18	2.9	4.3	2.2
19	2.9	57	20	8.4	14	76	89	20	36	3.2	30	2.2
20	2.9	83	134	8.0	13	51	55	21	75	17	30	2.5
21	2.5	41	91	7.6	12	36	38	15	21	189	12	2.5
22	2.9	31	69	25	11	28	28	13	14	73	7.3	2.2
23	4.7	24	44	33	10	25	43	12	11	23	5.2	2.2
24	3.9	21	35	14	9.2	22	36	10	9.1	72	5.7	1.6
25	2.9	21	28	15	8.6	52	28	38	7.9	73	4.8	1.6
26	2.9	28	27	14	10	218	23	44	7.9	31	3.9	1.9
27	2.9	31	23	26	9.8	79	61	36	38	21	3.2	1.6
28	5.0	30	20	38	9.1	44	52	27	28	13	2.9	1.9
29	4.3	23	19	28	------	72	33	27	23	9.8	2.5	4.8
30	3.6	21	20	18	------	72	27	25	13	7.9	2.5	3.9
31	5.9	------	65	14	------	69	------	19	------	7.3	2.5	------
TOTAL	179.6	2,373	1,471	628.5	474.1	2,483.8	1,511	724.8	1,920.4	641.5	258.5	69.3
MEAN	5.79	79.1	47.5	20.3	16.9	80.1	50.4	23.4	64.0	20.7	8.34	2.31
MAX	34	462	144	86	61	387	119	84	690	189	47	4.8
MIN	2.5	17	15	7.6	7.8	9.8	23	9.8	7.9	2.9	2.5	1.6
CFSM	.26	3.48	2.09	.89	.74	3.53	2.22	1.03	2.82	.91	.37	.10
IN.	.29	3.89	2.41	1.03	.78	4.07	2.48	1.19	3.15	1.05	.42	.11

CAL YR 1972 TOTAL 9,269.39 MEAN 25.3 MAX 462 MIN .04 CFSM 1.11 IN 15.19
WTR YR 1973 TOTAL 12,735.50 MEAN 34.9 MAX 690 MIN 1.6 CFSM 1.54 IN 20.87

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	0730	3.82	1,069	3-17	0100	3.47	854
11-14	0300	4.07	1,210	6-5	2300	4.82	1,720

03271500 Great Miami River at Miamisburg, Ohio

LOCATION.--Lat 39°38'40", long 84°17'23", in sec. 31, R.6, T.1, Montgomery County, on left bank 600 ft (183 m) downstream from bridge on State Highway 725 at Miamisburg, 0.3 mi (0.5 km) downstream from Bear Creek, and 3.2 mi (5.1 km) upstream from Craims Run.

DRAINAGE AREA.--2,711 mi^2 (7,021 km^2).

PERIOD OF RECORD.--March 1916 to September 1920 (published as Miami River at Franklin 1916-17), August 1924 to September 1935 (published as Miami River near Miamisburg), October 1952 to current year (published as Miami River at Miamisburg 1952-62). Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 678.60 ft (206.837 m) above mean sea level, adjustment of 1912. Mar. 16, 1916 to Sept. 30, 1920, nonrecording gage at site 6.7 mi (10.8 km) downstream at different datum. Aug. 29 to Sept. 16, 1924, nonrecording gage, and Sept. 17, 1924, to Sept. 30, 1935, water-stage recorder, at site 2.2 mi (3.5 km) downstream at datum 677.06 ft (206.368 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 2,343 ft^3/s (66.35 m^3/s), 11.74 in/yr (298.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,400 ft^3/s (634 m^3/s) Nov. 15, gage height, 12.71 ft (3.874 m); minimum, 783 ft^3/s (22.2 m^3/s) Sept. 27.

Period of record: Maximum discharge, 61,800 ft^3/s (1,750 m^3/s) Jan. 21, 22, 1959, gage height, 20.65 ft (6.294 m), in gage well, from graph based on gage readings; 21.3 ft (6.49 m), from outside floodmarks; minimum daily, 148 ft^3/s (4.19 m^3/s) Sept. 7, 1925.

Flood of March 26, 1913 reached a discharge of 257,000 ft^3/s (7,280 m^3/s), computed by Miami Conservancy District.

REMARKS.--Records fair. Diurnal fluctuation caused by powerplant 0.4 mi (0.6 km) upstream from station. Flood flow regulated by retarding dams beginning in 1920 on Mad River 19 mi (31 km) upstream, on Stillwater River 23 mi (37 km) upstream, on Great Miami River 23 mi (37 km) upstream and on Loramie Creek 52 mi (84 km) upstream. Also see REMARKS for station No. 03261500. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 743: 1929(M). WSP 1385: 1926. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,300	2,580	3,250	6,540	3,060	1,560	8,260	3,550	2,220	3,200	1,880	1,610
2	4,490	9,110	3,000	4,790	4,470	1,580	7,690	3,460	1,950	2,580	1,740	1,300
3	2,880	16,700	2,740	3,860	7,020	1,650	5,900	3,420	1,760	4,610	1,590	1,180
4	2,610	13,600	2,640	5,560	5,800	1,960	6,360	3,020	4,200	7,730	1,560	1,170
5	3,670	8,250	2,580	6,760	4,290	2,680	9,900	2,710	7,000	10,400	1,400	1,160
6	3,720	4,850	4,720	4,770	3,570	4,110	8,700	2,510	14,100	7,860	1,320	1,660
7	2,880	5,090	13,500	3,410	3,140	3,570	6,180	2,330	12,700	4,990	1,270	1,310
8	2,200	12,600	13,400	2,850	3,060	4,660	5,380	3,570	8,350	3,440	1,230	1,080
9	1,860	14,000	11,100	2,600	2,930	4,130	5,110	3,660	5,330	2,700	1,200	1,150
10	1,620	9,390	8,040	2,220	2,600	6,060	6,000	3,440	3,940	2,880	1,300	1,200
11	1,490	6,510	6,320	2,060	2,150	12,800	6,200	3,650	3,160	3,230	1,280	1,070
12	1,670	5,170	4,830	2,000	1,980	14,800	5,620	4,030	2,780	2,570	3,260	1,050
13	2,960	5,260	7,340	1,950	1,950	12,400	7,840	3,220	3,710	2,060	11,400	1,010
14	2,530	17,700	10,100	1,890	2,000	9,300	7,640	2,810	4,050	1,940	10,300	995
15	1,890	21,800	6,860	1,900	2,790	13,100	5,620	2,560	3,120	2,100	11,700	1,000
16	1,530	17,700	4,970	1,850	3,900	12,200	4,520	2,280	2,400	1,730	14,300	1,020
17	1,400	12,800	3,340	1,820	3,020	16,900	5,440	2,130	4,700	1,590	7,990	1,010
18	1,280	7,860	3,190	1,800	2,430	18,900	8,390	2,020	6,480	1,380	5,170	973
19	1,250	5,400	3,680	1,920	2,340	16,000	8,150	2,250	3,440	1,320	3,870	930
20	1,140	7,200	5,700	1,860	2,160	12,900	6,900	2,630	9,010	1,620	5,100	925
21	1,060	7,360	7,240	1,740	2,060	8,810	5,600	2,840	7,180	6,160	6,340	929
22	1,000	5,510	7,490	2,330	1,950	6,620	4,390	2,430	4,380	4,130	3,930	916
23	1,110	4,430	6,820	3,280	1,890	5,530	5,960	2,140	3,190	3,030	2,720	926
24	1,060	3,760	5,660	4,270	1,800	4,830	7,910	2,030	2,670	3,360	2,230	948
25	1,040	3,410	5,100	3,130	1,680	4,950	5,680	2,080	2,500	5,330	2,070	959
26	1,040	3,420	4,740	2,810	1,650	10,600	4,130	3,570	2,360	7,080	1,820	893
27	1,020	3,730	4,270	2,880	1,640	12,800	4,130	3,900	4,250	7,020	1,680	877
28	1,040	4,100	3,810	3,170	1,600	9,260	5,150	3,140	7,930	4,480	1,550	843
29	1,020	4,050	3,330	4,750	------	6,760	4,810	2,820	6,820	3,070	1,500	978
30	999	3,490	3,160	4,590	------	7,770	3,840	2,600	4,610	2,460	1,480	975
31	1,040	------	4,630	3,300	------	7,970	------	2,370	------	2,080	2,120	------
TOTAL	60,799	246,830	177,550	98,660	78,930	257,160	187,400	89,170	150,290	118,130	116,300	32,047
MEAN	1,961	8,228	5,727	3,183	2,819	8,295	6,247	2,876	5,010	3,811	3,752	1,068
MAX	6,300	21,800	13,500	6,760	7,020	18,900	9,900	4,030	14,100	10,400	14,300	1,660
MIN	999	2,580	2,580	1,740	1,600	1,560	3,840	2,020	1,760	1,320	1,200	843
CFSM	.72	3.04	2.11	1.17	1.04	3.06	2.30	1.06	1.85	1.41	1.38	.39
IN.	.83	3.39	2.44	1.35	1.08	3.53	2.57	1.22	2.06	1.62	1.60	.44

CAL YR 1972 TOTAL 1,251,549 MEAN 3,420 MAX 21,800 MIN 506 CFSM 1.26 IN 17.17
WTR YR 1973 TOTAL 1,613,266 MEAN 4,420 MAX 21,800 MIN 843 CFSM 1.63 IN 22.14

03271800 Twin Creek near Ingomar, Ohio

LOCATION.--Lat 39°42'28", long 84°31'30", in sec. 15, T.5N., R.3E., Preble County, on left bank at downstream side of bridge on Halderman Road, 0.5 mi (0.8 km) downstream from Bantas Fork, 1.4 mi (2.3 km) west of Ingomar, and 4.8 mi (7.7 km) upstream from Aukerman Creek.

DRAINAGE AREA.--197 mi² (510 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1959, 1961-62. October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.42 ft (248.540 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 182 ft³/s (5.154 m³/s), 12.55 in/yr (318.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,580 ft³/s (186 m³/s) Nov. 14, gage height, 8.60 ft (2.621 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 26, 27, 28, 29.

Period of record: Maximum discharge, 19,300 ft³/s (547 m³/s) Mar. 4, 1963, gage height, 14.40 ft (4.389 m), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of contracted-opening measurement at gage height 18.8 ft (5.73 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Sept. 12-14, 1964.

Flood of Jan. 21, 1959 reached a stage of 18.8 ft (5.73 m), discharge, 30,300 ft³/s (858 m³/s), computed by Miami Conservancy District. Flood of Mar. 25, 1913 reached a stage of 28.0 ft (8.53 m).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 9 discharge measurements furnished by Miami Conservancy District.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	227	185	354	196	74	624	206	105	143	75	25
2	31	1.870	153	224	651	76	410	200	89	113	66	22
3	25	992	135	220	482	87	310	206	82	97	59	20
4	29	364	121	836	294	113	584	165	585	95	52	19
5	67	206	123	416	233	264	762	138	2.390	133	46	18
6	61	148	1.820	230	195	269	410	123	2.910	95	42	18
7	47	582	1.010	160	168	319	298	117	1.210	72	38	17
8	33	1.620	902	120	140	389	314	318	515	62	36	16
9	26	572	1.130	100	120	265	334	248	310	56	43	17
10	21	339	768	92	100	1.310	505	170	224	54	40	17
11	19	371	394	86	88	2.720	460	143	178	50	38	17
12	19	266	294	82	78	1.220	455	119	158	44	38	17
13	18	956	1.100	80	82	555	519	107	160	41	36	16
14	17	4.280	563	80	100	1.230	326	97	125	45	64	16
15	17	1.460	320	85	453	1.820	257	91	107	47	95	16
16	16	693	180	77	290	1.020	227	85	105	45	61	15
17	15	402	140	75	190	3.330	731	82	113	40	44	15
18	15	269	150	79	140	1.420	871	75	103	34	36	14
19	15	373	180	83	120	955	864	92	221	31	32	14
20	15	990	916	79	110	606	622	150	648	53	43	14
21	13	450	927	69	100	398	390	105	203	1.130	44	14
22	13	302	794	189	95	298	294	89	130	545	38	14
23	16	233	530	438	90	245	494	85	101	214	31	14
24	16	193	418	230	85	218	517	82	135	760	31	13
25	16	180	342	170	82	343	326	112	121	1.480	30	13
26	16	218	290	155	78	2.140	251	209	99	494	27	12
27	16	269	242	277	76	1.110	254	140	774	355	25	12
28	17	350	200	403	74	544	310	143	535	200	23	12
29	18	245	170	532	------	484	230	170	362	132	22	13
30	18	203	180	245	------	754	200	175	198	100	21	14
31	18	------	538	180	------	580	------	133	------	82	24	------
TOTAL	713	19.623	15.215	6.446	4.911	25.156	13.149	4.375	12.996	6.842	1.300	474
MEAN	23.0	654	491	208	175	811	438	141	433	221	41.9	15.8
MAX	67	4.280	1.820	836	651	3.330	871	318	2.910	1.480	95	25
MIN	13	148	121	69	74	74	200	75	82	31	21	12
CFSM	.12	3.32	2.49	1.06	.89	4.12	2.22	.72	2.20	1.12	.21	.08
IN.	.13	3.71	2.87	1.22	.93	4.75	2.48	.83	2.45	1.29	.25	.09

CAL YR 1972 TOTAL 90.491.3 MEAN 247 MAX 4.280 MIN 5.9 CFSM 1.25 IN 17.09
WTR YR 1973 TOTAL 111.200.0 MEAN 305 MAX 4.280 MIN 12 CFSM 1.55 IN 21.00

PEAK DISCHARGE (BASE, 4,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0300	8.60	6,580	6-5	2400	8.56	6,530
3-17	0400	7.24	4,890				

03272000 Twin Creek near Germantown, Ohio

LOCATION.--Lat 39°38'10", long 84°23'48", in NW 1/4 sec. 11, T.3N., R.4E., Montgomery County, on right bank 0.3 mi (0.5 km) downstream from Germantown Dam, 1.5 mi (2.4 km) northwest of Germantown, and 3 mi (5 km) upstream from Little Twin Creek.

DRAINAGE AREA.--275 mi² (712 km²).

PERIOD OF RECORD.--April 1914 to December 1923, December 1926 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.24 ft (213.433 m) above mean sea level, adjustment of 1912. Prior to Dec. 18, 1926 nonrecording gage at site 1 mi (2 km) downstream at datum 12.49 ft (3.807 m) higher.

AVERAGE DISCHARGE.--55 years (1914-23, 1927-73), 260 ft³/s (7.363 m³/s), 12.84 in/yr (326.1 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,300 ft³/s (150 m³/s) Nov. 14, gage height, 26.00 ft (7.925 m); minimum, 19 ft³/s (0.54 m³/s) Oct. 20, 21, 22, Sept. 26, 27, 28.

Period of record: Maximum discharge, 9,390 ft³/s (266 m³/s) July 8, 1915, gage height, 11.7 ft (3.57 m), from graph based on gage readings, site and datum then in use; maximum gage height, 29.19 ft (8.897 m) Jan. 22, 1959; minimum discharge, 1.5 ft³/s (0.042 m³/s) Sept. 25, 1941.

Flood of Mar. 25, 1913 reached a stage of 18.3 ft (5.58 m), original site and datum, discharge, 66,000 ft³/s (1,870 m³/s), computed by Miami Conservancy District.

REMARKS.--Records good except those for period of no gage height record, which are fair. Flood flow regulated by Germantown retarding basin, 0.3 mi (0.5 km) upstream beginning in 1920. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 8 discharge measurements furnished by Miami Conservancy District.

REVISIONS (WATER YEARS).--WSP 403: 1914(M). WSP 1385: 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTORER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	196	273	585	292	114	840	279	151	251	135	54
2	30	1,670	231	362	766	116	600	267	131	200	119	42
3	31	1,140	201	335	690	125	430	303	121	170	106	37
4	31	458	185	1,100	450	148	780	255	323	175	95	34
5	59	279	180	640	352	290	1,000	213	2,290	221	85	33
6	64	195	1,370	370	289	383	650	190	4,660	169	77	32
7	55	381	1,400	240	246	348	440	178	2,100	130	71	30
8	43	1,910	1,300	210	220	525	410	823	784	112	67	29
9	35	740	1,630	180	180	334	460	485	490	101	64	29
10	28	438	1,070	160	160	1,220	710	303	355	96	84	29
11	26	454	610	150	140	3,090	650	243	279	101	68	26
12	27	359	458	140	130	1,880	620	195	246	83	72	28
13	26	640	1,410	130	120	760	740	173	243	75	74	27
14	24	4,750	802	130	150	949	460	158	204	86	69	27
15	22	2,530	490	131	502	2,760	380	148	173	148	146	26
16	21	946	370	123	440	1,400	320	140	168	81	113	25
17	21	605	290	119	240	4,000	900	131	514	74	80	23
18	20	426	260	121	190	3,200	1,400	123	317	63	65	22
19	20	426	290	131	180	2,100	1,200	133	342	58	57	21
20	20	1,190	1,290	123	170	1,400	928	210	2,400	157	74	21
21	20	670	1,260	110	160	840	585	163	529	3,310	72	21
22	20	458	1,040	243	150	640	438	140	315	1,170	64	22
23	22	359	740	570	140	520	548	129	230	493	55	25
24	25	289	585	366	131	400	710	125	258	844	53	22
25	26	264	490	255	121	440	462	123	338	1,970	54	21
26	26	310	434	228	119	3,100	359	257	205	800	49	20
27	27	380	373	390	117	2,000	369	249	1,310	522	46	19
28	29	454	317	505	116	800	494	210	858	348	43	19
29	29	359	267	720	------	740	352	231	561	234	40	22
30	29	292	264	380	------	1,100	292	231	346	177	39	26
31	31	------	716	276	------	860	------	188	------	150	40	------
TOTAL	919	23,568	20,596	9,524	6,961	36,582	18,527	6,996	21,241	12,569	2,276	814
MEAN	29.6	786	664	307	249	1,180	618	226	708	405	73.4	27.1
MAX	64	4,750	1,630	1,100	766	4,000	1,400	823	4,660	3,310	146	54
MIN	20	195	180	110	116	114	292	123	121	58	39	19
CFSM	.11	2.86	2.41	1.12	.91	4.29	2.25	.82	2.57	1.47	.27	.10
IN.	.12	3.19	2.79	1.29	.94	4.95	2.51	.95	2.87	1.70	.31	.11

CAL YR 1972 TOTAL 113,237.5 MEAN 309 MAX 4,750 MIN 9.0 CFSM 1.12 IN 15.32
WTR YR 1973 TOTAL 160,573.0 MEAN 440 MAX 4,750 MIN 19 CFSM 1.60 IN 21.72

Note: No gage height record March 16 to April 19.

03274000 Great Miami River at Hamilton, Ohio

LOCATION.--Lat 39°23'28", long 84°34'20", in NE 1/4 sec. 6, T.1N., R.3E., Butler County, on right bank 1,000 ft (305 m) downstream from Columbia Bridge at Hamilton, 3 mi (5 km) downstream from Four Mile Creek, and 4.3 mi (6.9 km) upstream from Pleasant Run.

DRAINAGE AREA.--3,630 mi² (9,402 km²).

PERIOD OF RECORD.--January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi (1.1 km) upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Hamilton.

GAGE.--Water-stage recorder. Datum of gage is 499.98 ft (152.394 m) above mean sea level, adjustment of 1912. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi (1.1 km) upstream at datum 64.65 ft (19.705 m) higher.

AVERAGE DISCHARGE.--42 years (1931-73), 3,191 ft³/s (90.37 m³/s), 11.94 in/yr (303.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 37,700 ft³/s (1,070 m³/s) July 21, gage height, 69.55 ft (21.199 m); minimum, 770 ft³/s (21.8 m³/s) Sept. 28.

Period of record: Maximum discharge, 352,000 ft³/s (9,970 m³/s) Mar. 26, 1913, gage height, 38.5 ft (11.73 m), site and datum then in use, computed by Miami Conservancy District; minimum, 100 ft³/s (2.83 m³/s) Sept. 26, 27, 1941; minimum gage height, 55.73 ft (16.986 m) Oct. 18, 1960.

REMARKS.--Records good. Some regulation at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station beginning in 1920 (see REMARKS for station numbers 03271500 and 03272000). Small diversion about 6 mi (10 km) upstream from gage for municipal supply of Hamilton. Diversion averaged 0.86 ft³/s (0.024 m³/s) in 1973 and is returned as sewage 1.4 mi (2.3 km) downstream from the station. The Miami and Erie Canal diverted water from the basin 1.7 mi (2.7 km) upstream from station until Nov. 1, 1930, when canal was abandoned; amount of diversion not known. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height charts, tapes and 13 discharge measurements furnished by Miami Conservancy District.

REVISIONS.--WSP 803: 1936. WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,860	3,320	4,290	8,100	4,250	2,080	11,000	4,680	3,080	4,440	2,680	2,230
2	5,200	8,000	4,140	6,480	6,220	2,080	10,400	4,480	2,760	3,530	2,440	1,680
3	3,530	17,800	3,710	5,290	8,400	2,150	8,080	4,480	2,440	4,000	2,230	1,480
4	2,870	15,300	3,510	8,500	7,550	2,330	9,030	4,050	3,530	7,650	2,110	1,400
5	3,780	10,200	3,460	8,480	5,780	3,510	12,200	3,640	11,100	10,400	1,930	1,410
6	4,110	6,060	5,670	6,520	4,620	4,720	11,400	3,350	22,100	9,030	1,800	1,670
7	3,430	5,890	14,400	4,780	4,270	4,880	8,150	3,130	18,600	6,080	1,720	1,690
8	2,620	14,200	19,100	3,980	4,020	5,060	7,200	5,360	11,600	4,320	1,650	1,360
9	2,160	16,100	18,000	3,580	3,800	5,380	6,590	5,670	7,350	3,430	1,710	1,280
10	1,860	11,600	11,800	3,110	3,450	5,840	7,800	4,780	5,490	3,270	1,740	1,370
11	1,680	8,250	8,680	2,780	2,980	18,200	8,350	4,130	4,420	3,820	1,890	1,290
12	1,620	6,550	6,630	2,620	2,640	19,400	7,580	5,000	3,820	3,420	1,740	1,220
13	2,680	6,540	9,290	2,570	2,580	15,300	8,700	4,130	4,230	2,600	10,200	1,190
14	3,000	25,700	12,500	2,510	2,680	12,500	9,650	3,580	4,800	2,330	10,600	1,160
15	2,290	27,000	9,200	2,500	3,960	18,500	7,280	3,320	4,200	2,860	10,300	1,130
16	1,760	21,100	6,750	2,470	4,960	16,400	5,840	2,980	3,340	2,230	14,200	1,140
17	1,570	15,200	4,880	2,360	4,290	26,500	7,350	2,780	3,910	2,040	9,380	1,140
18	1,440	10,200	4,270	2,340	3,370	25,000	14,300	2,600	8,700	1,810	6,080	1,130
19	1,370	7,030	4,860	2,470	3,160	20,300	13,200	2,840	4,920	1,670	4,380	1,050
20	1,260	9,620	9,560	2,470	3,000	16,200	10,500	3,690	12,500	1,730	5,250	1,030
21	1,160	9,650	9,890	2,330	2,780	11,400	8,100	3,510	10,200	22,600	7,080	1,040
22	1,060	7,250	9,710	3,220	2,650	8,530	6,350	3,240	6,080	9,000	4,920	1,030
23	1,140	5,780	8,830	4,290	2,510	7,100	7,480	2,790	4,360	5,340	3,510	1,100
24	1,160	4,840	7,400	5,450	2,430	6,130	10,200	3,130	3,540	6,330	2,740	1,010
25	1,110	4,400	6,520	4,310	2,270	6,190	8,000	3,000	3,890	10,400	2,540	1,040
26	1,090	4,420	6,130	3,750	2,190	15,400	5,950	5,120	3,300	10,200	2,250	1,020
27	1,090	4,680	5,620	4,200	2,190	17,600	5,730	6,410	5,830	8,680	2,040	963
28	1,120	5,160	5,060	4,600	2,130	12,700	7,180	5,040	9,830	6,390	1,930	909
29	1,080	5,250	4,500	6,240	------	10,800	6,370	4,070	8,750	4,500	1,810	900
30	1,030	4,620	4,200	6,240	------	12,200	5,180	3,950	6,060	3,560	1,830	1,110
31	1,090	------	6,570	4,620	------	11,190	------	3,420	------	3,020	2,230	------
TOTAL	66,200	301,760	239,130	133,160	105,330	345,680	255,140	122,330	205,730	170,640	126,710	37,172
MEAN	2,137	10,060	7,714	4,295	3,762	11,150	8,505	3,946	6,858	5,506	4,087	1,239
MAX	5,860	27,000	19,100	8,500	8,400	26,500	14,300	6,410	22,100	22,600	14,200	2,230
MIN	1,030	3,320	3,460	2,330	2,130	2,080	5,180	2,600	2,440	1,670	1,650	900
CFSM	.59	2.77	2.13	1.18	1.04	3.07	2.34	1.09	1.89	1.52	1.13	.34
IN.	.68	3.09	2.45	1.36	1.08	3.54	2.61	1.25	2.11	1.75	1.30	.38

CAL YR 1972 TOTAL 1,606,264 MEAN 4,389 MAX 27,000 MIN 468 CFSM 1.21 IN 16.46
WTR YR 1973 TOTAL 2,109,082 MEAN 5,778 MAX 27,000 MIN 900 CFSM 1.59 IN 21.61

03276500 Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°24'24", long 85°00'46", in NE 1/4 NW 1/4 sec.32, T.9 N., R.2 W., Franklin County, on right bank at downstream side of highway bridge, 0.3 mi (0.5 km) downstream from East Fork Whitewater River, and 1.1 mi (1.8 km) south of Brookville.

DRAINAGE AREA.--1,224 mi² (3,170 km²).

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft (181.572 m) above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft (0.46 m) higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years (1915-17, 1923-73), 1,261 ft³/s (35.71 m³/s), 13.99 in/yr (355.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,500 ft³/s (496 m³/s) Mar. 11, gage height, 11.95 ft (3.642 m); minimum daily, 245 ft³/s (6.94 m³/s) Sept. 30.

Period of record: Maximum discharge, 81,800 ft³/s (2,320 m³/s) Jan. 21, 1959, gage height, 27.78 ft (8.467 m), from rating curve extended above 45,000 ft³/s (1,270 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 60 ft³/s (1.70 m³/s) July 27, 1934.

Flood of Mar. 25, 1913, reached a stage of 39.0 ft (11.89 m), present datum, from floodmarks (discharge not determined).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1915-17, 1929, 1930(M), 1933(M), 1934, 1935(m), 1936. WSP 1505: 1916(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	774	2,050	1,410	2,850	1,950	825	3,640	1,690	840	1,250	974	371
2	573	4,450	1,260	2,050	3,120	840	3,160	1,670	760	1,030	878	349
3	450	4,910	1,180	1,910	3,100	902	2,710	1,610	825	934	795	335
4	435	2,310	1,120	3,910	2,450	958	3,250	1,450	1,020	1,850	718	327
5	690	1,570	1,100	3,020	2,040	2,080	4,040	1,330	3,700	1,670	655	315
6	732	1,200	7,830	2,150	1,800	2,030	3,280	1,230	5,320	1,150	599	319
7	573	1,630	7,180	1,700	1,600	3,940	2,680	1,190	4,790	870	561	315
8	475	4,450	6,910	1,400	1,550	3,620	3,030	2,330	2,540	732	525	307
9	416	3,030	6,660	1,100	1,360	3,250	2,680	2,070	1,870	662	520	307
10	367	2,050	4,110	1,000	1,200	9,400	2,810	1,600	1,470	739	592	311
11	349	1,900	2,830	930	1,110	14,300	2,890	1,410	1,220	620	515	303
12	367	1,570	2,350	900	1,070	11,800	2,820	1,240	1,100	555	803	295
13	362	2,900	5,910	960	1,070	5,760	2,780	1,120	1,090	505	1,350	288
14	344	12,100	3,920	958	1,130	5,050	2,500	1,060	942	500	774	288
15	323	8,910	2,720	966	2,010	8,210	2,200	1,010	863	676	781	288
16	315	3,890	2,160	902	1,910	4,940	2,050	966	1,140	825	662	285
17	299	2,710	1,710	902	1,350	8,300	3,270	926	1,990	573	549	278
18	292	2,140	1,710	934	1,310	7,290	5,270	878	1,280	490	490	274
19	285	2,290	1,810	1,010	1,230	5,320	5,100	966	1,110	445	450	271
20	274	3,860	4,490	934	1,170	3,910	5,470	1,710	2,720	430	1,420	267
21	264	2,720	3,580	863	1,100	3,210	3,750	1,090	1,570	10,700	1,510	274
22	257	2,180	3,090	2,110	1,010	2,640	2,950	942	1,020	5,320	833	267
23	260	1,850	2,690	2,790	998	2,330	5,800	886	840	1,980	627	271
24	257	1,610	2,350	2,070	926	2,130	5,000	848	725	4,320	543	267
25	257	1,500	2,160	1,570	894	2,480	3,310	1,160	676	7,670	537	267
26	254	1,720	2,030	1,410	894	7,650	2,780	1,320	966	6,570	485	260
27	254	1,890	1,860	1,660	878	6,840	2,370	1,320	8,070	4,030	445	257
28	260	1,830	1,680	2,050	840	4,260	2,160	1,330	4,420	2,270	421	251
29	274	1,670	1,520	2,760	------	3,770	1,900	1,290	2,310	1,560	403	248
30	271	1,500	1,470	2,020	------	4,320	1,740	1,150	1,650	1,250	385	245
31	278	------	2,950	1,710	------	3,460	------	966	------	1,070	445	------
TOTAL	11,581	88,390	93,750	51,499	41,070	145,815	97,390	39,758	58,837	63,246	21,245	8,700
MEAN	374	2,946	3,024	1,661	1,467	4,704	3,246	1,283	1,961	2,040	685	290
MAX	774	12,100	7,830	3,910	3,120	14,300	5,800	2,330	8,070	10,700	1,510	371
MIN	254	1,200	1,100	863	840	825	1,740	848	676	430	385	245
CFSM	.31	2.41	2.47	1.36	1.20	3.84	2.65	1.05	1.60	1.67	.56	.24
IN.	.35	2.69	2.85	1.57	1.25	4.43	2.96	1.21	1.79	1.92	.65	.26

CAL YR 1972 TOTAL 500,865 MEAN 1,368 MAX 13,100 MIN 140 CFSM 1.12 IN 15.22
WTR YR 1973 TOTAL 721,281 MEAN 1,976 MAX 14,300 MIN 245 CFSM 1.61 IN 21.92

PEAK DISCHARGE (BASE, 12,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0600	9.92	13,200	3-11	1400	11.95	17,500
12-8	2000	9.27	12,000	7-21	2000	10.64	14,500

03322500 Wabash River near New Corydon, Ind.

LOCATION.--Lat 40°33'50", long 84°48'10", in NE 1/4 SE 1/4 sec.3, T.24 N., R.15 E., Jay County, on left bank, 10 ft (3 m) downstream from county bridge on Indiana-Ohio State line road, 2 mi (3 km) east of New Corydon, 2.8 mi (4.5 km) downstream from Beaver Creek, and at mile 465.6 (749.2 km).

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft (253.014 m) above mean sea level. Prior to Jun. 24, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 193 ft³/s (5.466 m³/s), 10.00 in/yr (254.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,460 ft³/s (126 m³/s) Nov. 14, gage height, 18.20 ft (5.547 m); minimum daily, 5.4 ft³/s (0.15 m³/s) Sept. 30.

Period of record: Maximum discharge, 8,720 ft³/s (247 m³/s) Jan. 22, 1959, gage height, 20.47 ft (6.239 m), from floodmarks; minimum daily, 0.8 ft³/s (0.023 m³/s) Dec. 22, 23, 1963.

REMARKS.--Records fair. Occasional regulation by Grand Lake, diversion from or into St. Mary River basin, and into Miami and Erie Canal. Water-quality records for the current year are published in WRD Indiana, 1973.

REVISIONS (WATER YEARS).--WSP 1555: 1957(P). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	350	406	808	484	292	991	102	69	114	41	161
2	370	2,690	380	508	1,120	182	664	94	58	87	35	156
3	269	3,710	360	454	970	123	521	110	52	146	32	153
4	475	1,840	356	1,190	621	185	524	86	50	234	31	149
5	728	764	529	756	492	531	794	69	934	152	30	146
6	451	398	2,790	489	440	478	556	62	2,600	115	28	143
7	336	850	2,580	410	401	283	448	59	2,240	98	25	141
8	283	2,800	1,160	360	388	369	416	77	716	85	24	140
9	275	1,680	714	330	360	406	384	193	258	78	23	138
10	283	816	568	310	339	1,950	350	124	155	73	23	134
11	245	566	411	300	327	2,420	317	144	121	69	34	88
12	628	459	470	290	321	2,600	492	99	109	65	660	76
13	544	628	430	280	322	949	1,170	74	100	59	364	74
14	345	3,780	1,150	280	328	1,170	572	64	88	52	1,060	73
15	278	3,190	682	280	349	2,080	371	90	79	48	1,900	72
16	255	1,640	518	290	340	952	338	71	74	47	714	71
17	247	750	580	322	350	2,210	342	59	72	45	243	70
18	222	628	478	332	350	1,950	460	53	69	43	138	71
19	208	504	408	341	339	1,510	404	134	62	40	95	71
20	205	766	521	331	336	952	341	272	58	38	300	70
21	205	802	619	287	336	688	193	116	55	67	196	65
22	203	585	660	505	322	550	943	83	50	146	110	20
23	210	502	635	848	321	484	2,070	72	47	120	131	12
24	215	449	657	470	307	449	862	66	45	75	137	9.1
25	205	422	669	384	301	637	328	79	45	70	131	7.9
26	200	529	601	401	300	1,490	176	212	43	83	124	7.2
27	197	658	524	451	286	1,170	132	282	342	73	117	6.6
28	198	639	462	646	290	660	110	180	412	55	116	6.0
29	208	496	465	852	------	540	89	112	550	43	159	5.8
30	210	430	601	520	------	782	86	160	203	41	165	5.4
31	209	------	1,150	414	------	710	------	95	------	47	164	------
TOTAL	9,667	34,321	22,534	14,439	11,440	29,742	15,444	3,493	9,756	2,508	7,350	2,342.0
MEAN	312	1,144	727	466	409	959	515	113	325	80.9	237	78.1
MAX	760	3,780	2,790	1,190	1,120	2,600	2,070	282	2,600	234	1,900	161
MIN	197	350	356	280	286	123	86	53	43	38	23	5.4
CFSM	1.19	4.37	2.77	1.78	1.56	3.66	1.97	.43	1.24	.31	.90	.30
IN.	1.37	4.87	3.20	2.05	1.62	4.22	2.19	.50	1.39	.36	1.04	.33

CAL YR 1972 TOTAL 142,878.5 MEAN 390 MAX 3,780 MIN 8.8 CFSM 1.49 IN 20.29
WTR YR 1973 TOTAL 163,036.0 MEAN 447 MAX 3,780 MIN 5.4 CFSM 1.71 IN 23.15

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0300	18.12	4,360	12-06	2000	17.59	3,710	04-23	0200	16.46	2,510
11-08	0900	17.06	3,070	03-11	2200	17.33	3,400	06-06	2100	17.25	3,300
11-14	1900	18.20	4,460	03-17	1500	16.72	2,750				

04178000 St. Joseph River near Newville, Ind.

LOCATION.--Lat 41°23'08", long 84°48'06", in SW 1/4 SW 1/4 sec. 18, T.5 N., R.1 E., Defiance County, Ohio, on left bank at bridge on Ohio State Highway 249, 3.5 mi (5.6 km) northeast of Newville and 6.5 mi (10.5 km) northwest of Hicksville, Ohio.

DRAINAGE AREA.--610 mi² (1,580 km²).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 795.40 ft (242.438 m) above mean sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 498 ft³/s (14.10 m³/s), 11.09 in/yr (281.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,330 ft³/s (66.0 m³/s) Nov. 16, gage height, 11.56 ft (3.523 m); maximum gage height, 11.60 ft (3.536 m) June 2; minimum daily discharge, 45 ft³/s (1.27 m³/s) Sept. 24, 25.
Period of record: Maximum discharge, 9,710 ft³/s (275 m³/s) Apr. 6, 1950, gage height, 17.05 ft (5.197 m); minimum daily, 14 ft³/s (0.40 m³/s) Sept. 10, 16, 1964.

REMARKS.--Records good. Water-quality records for the current year at site 0.5 mi (0.8 km) downstream (04178100 St. Joseph River at Indiana-Ohio State line) are published in WRD Indiana, 1973.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	366	571	2,000	555	315	1,300	519	1,860	587	561	88
2	569	808	533	2,060	968	576	1,290	502	1,970	531	345	84
3	468	1,310	523	2,050	1,440	1,050	1,230	540	1,900	1,090	281	78
4	383	1,240	500	2,000	1,470	1,340	1,170	559	1,740	1,420	229	71
5	330	1,090	480	2,000	1,390	1,480	1,070	565	1,880	1,540	193	67
6	294	875	520	1,800	1,240	1,600	930	514	1,640	1,500	164	64
7	263	723	988	1,500	1,010	1,620	813	457	1,430	1,230	147	60
8	251	1,300	915	1,300	823	1,600	721	466	1,310	771	131	59
9	226	1,500	800	1,100	686	1,460	659	595	1,250	534	121	57
10	209	1,470	660	900	540	1,350	873	672	1,070	476	119	55
11	195	1,580	560	600	480	1,570	1,040	787	780	493	125	54
12	470	1,470	512	470	450	1,860	1,140	719	653	496	168	54
13	611	1,240	845	420	400	1,870	1,100	606	1,200	424	160	53
14	400	1,940	920	430	390	1,940	935	493	1,230	344	140	52
15	288	2,260	740	410	360	2,160	763	420	1,260	287	121	49
16	242	2,320	620	350	300	2,110	657	374	1,280	240	107	47
17	219	2,310	560	390	310	2,100	615	344	1,020	215	102	46
18	200	2,260	570	434	330	2,080	611	320	675	201	97	48
19	184	2,120	620	593	363	2,090	697	309	519	181	92	46
20	170	1,860	700	688	369	2,080	747	291	441	174	94	51
21	162	1,520	780	642	374	2,070	738	275	374	195	92	50
22	166	1,270	910	683	363	2,040	895	261	326	208	103	49
23	348	1,130	1,010	1,070	381	1,980	1,290	296	288	202	100	48
24	582	990	1,110	1,180	341	1,910	1,340	443	281	186	98	45
25	670	853	1,210	1,140	335	1,880	1,370	747	260	174	96	45
26	611	756	1,190	1,010	305	2,040	1,310	853	258	164	96	48
27	498	727	1,140	878	287	2,030	1,100	878	350	168	90	48
28	403	725	1,030	870	270	1,920	858	1,030	491	163	88	48
29	383	686	908	843	------	1,760	690	1,250	631	153	84	48
30	401	624	1,100	736	------	1,590	582	1,500	672	138	84	54
31	384	------	1,790	626	------	1,390	------	1,670	------	512	91	------
TOTAL	11,189	39,323	25,315	31,173	16,530	52,861	28,534	19,255	29,039	14,997	4,519	1,666
MEAN	361	1,311	817	1,006	590	1,705	951	621	968	484	146	55.5
MAX	670	2,320	1,790	2,060	1,470	2,160	1,370	1,670	1,970	1,540	561	88
MIN	162	366	480	350	270	315	582	261	258	138	84	45
CFSM	.59	2.15	1.34	1.65	.97	2.80	1.56	1.02	1.59	.79	.24	.09
IN.	.68	2.40	1.54	1.90	1.01	3.22	1.74	1.17	1.77	.91	.28	.10

CAL YR 1972 TOTAL 200,200 MEAN 547 MAX 2,330 MIN 46 CFSM .90 IN 12.21
WTR YR 1973 TOTAL 274,401 MEAN 752 MAX 2,320 MIN 45 CFSM 1.23 IN 16.73

04181500 St. Marys River at Decatur, Ind.

LOCATION.--Lat 40°50'55", long 84°56'16", in SW 1/4 SW 1/4 sec.27, T.28 N., R.14 E., Adams County, on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 27, 0.5 mi (0.8 km) upstream from Holthouse ditch, and 1.3 mi (2.1 km) north of Decatur.

DRAINAGE AREA.--621 mi² (1,608 km²).

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mi (0.8 km) upstream January 1932 to November 1954, and at present site thereafter are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft (231.782 m) above mean sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 491 ft³/s (13.91 m³/s), 10.74 in/yr (272.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,220 ft³/s (120 m³/s) Mar. 16, gage height, 19.04 ft (5.803 m), from recorded range in stage; minimum daily, 24 ft³/s (0.68 m³/s) Sept. 30.

Period of record: Maximum discharge, 11,300 ft³/s (320 m³/s) Feb. 10, 11, 1959; maximum gage height, 24.22 ft (7.382 m) Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 ft³/s (0.15 m³/s) Oct. 18, 1960.

REMARKS.--Records good. Flow regulated by Grand Lake. Slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	336	580	1,390	726	125	1,630	318	221	344	441	57
2	786	2,560	512	935	1,780	115	1,400	259	193	493	377	52
3	576	3,380	440	924	1,750	229	1,220	239	162	1,300	283	48
4	783	3,030	379	1,400	1,150	401	1,120	214	163	1,280	175	45
5	1,530	2,450	425	1,650	1,030	830	1,110	193	1,100	777	115	42
6	904	2,170	2,380	900	997	918	902	178	2,110	735	86	40
7	487	2,080	3,040	711	880	821	735	167	2,350	832	70	38
8	360	2,720	2,550	620	702	1,000	671	169	1,920	845	60	36
9	283	2,680	2,130	530	500	930	621	196	2,010	682	52	34
10	206	2,110	2,150	420	387	1,500	588	163	1,860	440	46	33
11	148	1,810	1,810	360	292	2,700	498	228	1,330	255	52	32
12	262	1,730	1,380	300	203	3,800	664	291	1,210	155	72	31
13	260	1,690	2,290	250	199	3,600	1,790	328	1,240	104	121	30
14	181	3,500	2,290	210	206	3,500	1,310	368	451	99	300	30
15	131	4,000	1,650	182	201	3,900	1,030	350	269	87	1,070	28
16	163	3,780	1,390	155	167	4,200	1,110	272	220	72	1,290	25
17	228	3,340	1,100	139	184	4,100	1,790	199	189	59	1,510	27
18	146	2,960	1,000	160	211	4,000	1,630	166	162	53	1,690	27
19	133	2,450	950	215	231	3,900	1,620	169	125	49	1,600	26
20	102	1,990	880	203	259	3,800	1,290	179	106	60	1,310	26
21	85	1,560	900	133	270	3,700	913	164	96	114	1,130	26
22	80	1,100	960	368	199	3,300	1,100	222	88	816	606	26
23	151	900	1,030	975	232	2,300	1,680	289	78	1,240	451	25
24	194	803	1,130	618	181	1,600	1,310	291	77	896	416	26
25	133	731	1,260	536	155	1,200	1,360	384	73	854	323	25
26	103	739	1,170	627	149	2,400	1,430	834	75	796	204	28
27	86	898	1,050	755	88	1,530	1,220	444	111	602	138	25
28	81	801	885	913	116	1,020	874	411	224	404	102	26
29	148	651	830	1,160	------	997	562	366	629	266	85	26
30	203	596	1,480	733	------	1,510	409	281	417	176	74	24
31	160	------	1,910	656	------	1,350	------	239	------	379	66	------
TOTAL	10,339	59,545	41,931	19,628	13,445	65,276	33,592	8,571	19,261	15,347	14,315	966
MEAN	334	1,985	1,353	633	480	2,106	1,120	276	642	495	462	32.2
MAX	1,530	4,000	3,040	1,900	1,780	4,200	1,790	834	2,350	1,300	1,690	57
MIN	80	336	379	133	88	115	409	163	73	49	46	24
CFSM	.54	3.20	2.18	1.02	.77	3.39	1.80	.44	1.03	.80	.74	.05
IN.	.62	3.57	2.51	1.18	.81	3.91	2.01	.51	1.15	.92	.86	.06

CAL YR 1972 TOTAL 300,675 MEAN 822 MAX 7,280 MIN 18 CFSM 1.32 IN 18.01
WTR YR 1973 TOTAL 302,216 MEAN 828 MAX 4,200 MIN 24 CFSM 1.33 IN 18.10

PEAK DISCHARGE (BASE, 2,900 FT³/S)

NOTE.--No gage-height record Mar. 8-26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-03	0800	17.35	3,440	12-07	0600	16.38	3,080
11-15	1100	18.64	4,020	03-16	unknown	19.04	4,220

04183000 Maumee River at New Haven, Ind.

LOCATION.--Lat 41°05'06", long 85°01'20", in SE 1/4 NE 1/4 sec.2, T.30 N., R.13 E., Allen County, on left bank 600 ft (183 m) upstream from bridge on Landin Road, 1,400 ft (427 m) upstream from the Wabash Railroad bridge, 1.1 mi (1.8 km) northwest of New Haven, 2.8 mi (4.5 km) upstream from Sixmile Creek.

DRAINAGE AREA.--1,967 mi² (5,095 km²).

PERIOD OF RECORD.--December 1946 to September 1956 (high-water records only), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 724.51 ft (220.831 m) above mean sea level. Prior to Sept. 7, 1956, nonrecording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft (152 m) downstream at same datum.

AVERAGE DISCHARGE.--17 years (1956-73), 1,546 ft³/s (43.78 m³/s), 10.67 in/yr (271.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,100 ft³/s (314 m³/s) Nov. 15, gage height, 16.83 ft (5.130 m); minimum daily, 116 ft³/s (3.29 m³/s) Sept. 20.

Period of record: Maximum discharge, 19,100 ft³/s (541 m³/s) Feb. 16, 1950, gage height, 21.4 ft (6.52 m) at site then in use; minimum daily, 48 ft³/s (1.36 m³/s) Oct. 6, 13, 1963.

REMARKS.--Records good. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 mi (16.6 km) upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,330	1,440	1,860	7,000	1,890	755	4,450	1,600	2,960	1,420	2,420	315
2	2,500	4,210	1,770	5,100	4,960	1,060	4,700	1,500	2,950	1,350	1,620	259
3	1,900	7,100	1,520	4,300	6,880	2,170	3,960	1,450	3,120	3,620	1,120	240
4	2,130	6,950	1,440	6,690	5,010	2,970	3,570	1,400	3,310	6,040	865	187
5	3,340	5,770	1,350	7,020	3,900	3,540	3,250	1,300	3,950	4,140	691	153
6	2,930	4,560	3,460	5,010	3,500	4,310	2,970	1,200	6,650	3,210	480	176
7	1,820	4,380	6,010	3,520	3,090	3,810	2,470	1,150	7,700	2,940	432	171
8	1,330	6,520	5,480	2,780	2,610	3,890	2,200	1,250	5,800	2,590	400	181
9	1,110	6,740	4,460	2,400	2,110	3,660	2,020	1,930	4,550	1,870	278	171
10	931	5,830	3,940	1,800	1,710	4,950	2,100	1,490	4,340	1,570	360	145
11	839	5,470	3,500	1,500	1,250	9,380	2,130	1,430	3,470	1,300	700	171
12	2,360	4,900	3,150	1,280	1,050	9,920	2,390	1,670	3,080	869	736	168
13	2,630	4,540	5,470	1,160	1,030	8,770	3,600	1,440	3,460	869	476	199
14	2,140	9,710	5,770	1,060	1,100	8,730	3,740	1,340	2,920	702	533	153
15	1,270	11,000	4,610	1,240	1,120	9,460	2,760	1,160	2,190	583	920	118
16	1,220	10,400	3,440	952	1,020	9,730	2,930	1,090	1,960	502	1,440	125
17	864	9,070	2,580	863	610	10,100	3,370	896	2,030	527	1,640	218
18	970	7,790	2,260	921	783	10,400	3,630	852	1,510	371	2,140	155
19	736	6,730	2,480	1,200	930	10,300	4,200	901	1,070	472	2,370	128
20	710	6,240	2,620	1,450	1,040	10,000	3,800	813	765	495	2,960	116
21	584	5,210	2,900	1,320	1,140	9,410	3,100	735	751	422	2,370	120
22	634	3,970	3,330	2,060	1,100	8,460	4,100	734	698	441	1,330	165
23	1,400	3,420	3,330	3,690	946	7,050	6,000	781	453	1,440	872	117
24	2,230	2,820	3,490	3,440	1,070	5,470	5,000	942	1,180	1,590	867	144
25	1,830	2,620	4,050	2,630	887	5,100	4,000	1,080	708	1,240	649	168
26	1,530	2,430	3,800	2,550	794	7,450	3,950	1,490	1,580	1,190	532	251
27	1,460	2,510	3,500	2,600	771	7,260	3,650	2,010	2,430	1,020	459	249
28	1,210	2,700	3,100	2,610	693	5,150	2,900	1,820	1,930	721	339	120
29	1,290	2,210	2,800	3,080	------	4,260	2,400	2,200	2,320	720	259	150
30	1,520	1,990	4,450	2,630	------	4,200	1,800	2,670	1,750	525	336	160
31	1,320	------	7,200	2,050	------	4,410	------	2,990	------	972	352	------
TOTAL	50,068	159,230	109,320	85,906	52,994	196,525	101,190	43,314	82,045	45,851	30,946	5,193
MEAN	1,615	5,308	3,526	2,771	1,893	6,340	3,373	1,397	2,735	1,479	998	173
MAX	3,340	11,000	7,200	7,020	6,880	10,400	6,000	2,990	7,700	6,040	2,960	315
MIN	584	1,440	1,350	863	610	755	1,800	734	453	371	259	116
CFSM	.82	2.70	1.79	1.41	.96	3.22	1.72	.71	1.39	.75	.51	.09
IN.	.95	3.01	2.07	1.63	1.00	3.72	1.91	.82	1.55	.87	.59	.10

CAL YR 1972 TOTAL 830,518 MEAN 2,269 MAX 11,300 MIN 140 CFSM 1.15 IN 15.71
WTR YR 1973 TOTAL 962,632 MEAN 2,637 MAX 11,000 MIN 116 CFSM 1.34 IN 18.21

PEAK DISCHARGE (BASE, 9,500 FT³/S).--Nov. 15 (0245) 11,100 ft³/s (16.83 ft); Mar. 18 (2115) 10,500 ft³/s (15.69 ft).

04183500 Maumee River at Antwerp, Ohio

LOCATION.--Lat 41°11'56", long 84°44'40", in sec. 22, T.3N., R.1E., Paulding County, on left bank 425 ft (130 m) downstream from bridge on State Highway 49, 1 mi (2 km) north of Antwerp, 7 mi (11 km) downstream from Indiana State line and 10 mi (16 km) upstream from Marie DeLarme Creek.

DRAINAGE AREA.--2,129 mi² (5,514 km²).

PERIOD OF RECORD.--September 1921 to December 1935, April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 694.90 ft (211.805 m) above mean sea level. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft (122 m) upstream at same datum.

AVERAGE DISCHARGE.--48 years, 1,665 ft³/s (47.15 m³/s), 10.63 in/yr (270.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,600 ft³/s (357 m³/s) Nov. 15 gage height, 14.83 ft (4.520 m); minimum, 115 ft³/s (3.26 m³/s) Sept. 22.

Period of record: Maximum discharge, 26,200 ft³/s (742 m³/s) May 20, 1943, gage height, 20.29 ft (6.184 m); minimum, 24 ft³/s (0.68 m³/s) Oct. 17, 1930, June 21, 22, 1933, gage height, 0.32 ft (0.098 m).

Flood of Mar. 27, 1913, estimated as 40,000 ft³/s (1,130 m³/s).

REMARKS.--Records good. Low flow slightly regulated by powerplant at Fort Wayne, Indiana, 32 mi upstream. Flow slightly regulated by upstream reservoirs. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1174: 1927, 1933, 1940. WSP 1387: 1922-23, 1925-27, 1934. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,970	1,460	1,990	8,040	1,930	765	4,380	1,680	2,870	1,710	1,620	379
2	2,890	2,840	1,860	6,350	3,340	875	4,800	1,560	2,790	1,570	2,130	343
3	2,200	6,940	1,740	4,520	7,020	1,630	4,350	1,530	2,860	2,270	1,450	290
4	1,780	7,640	1,640	5,950	5,900	2,770	3,690	1,410	3,200	5,740	1,040	269
5	2,970	6,670	1,530	6,850	4,310	3,400	3,350	1,390	3,320	5,080	820	223
6	3,360	5,280	3,010	5,720	3,660	4,220	3,130	1,240	5,370	3,550	616	205
7	2,430	4,450	6,060	4,140	3,250	4,250	2,680	1,160	7,120	3,070	448	187
8	1,640	6,640	6,020	3,300	2,860	3,790	2,360	1,180	6,300	2,800	418	212
9	1,280	7,410	5,090	2,700	2,320	3,710	2,110	2,020	4,780	2,250	376	205
10	1,120	6,730	4,190	2,400	1,990	3,990	2,110	1,710	4,230	1,760	290	195
11	926	6,070	3,740	1,900	1,570	6,940	2,230	1,550	3,890	1,590	349	195
12	1,640	5,550	3,300	1,600	1,350	10,500	2,220	1,540	2,930	1,200	835	190
13	2,560	4,760	5,080	1,400	1,220	9,620	3,090	1,530	4,540	990	572	205
14	2,500	9,210	6,230	1,200	1,130	8,320	3,890	1,410	3,650	885	439	187
15	1,780	12,400	5,460	1,100	1,240	9,520	3,150	1,290	2,540	740	580	197
16	1,270	12,100	4,050	1,000	1,200	9,790	2,570	1,180	2,110	588	1,080	135
17	1,130	10,700	3,070	1,000	950	9,960	3,100	1,050	2,050	536	1,530	126
18	991	9,040	2,530	1,070	755	10,500	3,360	930	1,840	536	1,760	231
19	920	7,450	2,390	1,130	980	10,800	3,830	880	1,410	400	2,270	180
20	778	6,970	2,570	1,410	1,090	10,500	3,970	965	1,040	500	2,640	139
21	698	6,020	2,860	1,480	1,240	9,940	3,260	825	865	532	2,570	126
22	618	4,730	3,250	1,620	1,290	8,860	3,140	775	800	448	2,050	120
23	897	3,720	3,570	2,900	1,150	7,520	5,610	770	695	620	1,210	175
24	2,090	3,020	3,540	3,720	1,090	5,910	5,490	840	1,140	1,740	950	122
25	2,150	2,730	3,970	2,950	1,080	4,970	4,180	1,070	1,170	1,470	880	142
26	1,680	2,570	4,120	2,530	910	6,630	3,550	1,040	850	1,300	635	180
27	1,490	2,510	3,770	2,610	870	7,320	3,400	1,780	3,430	1,190	528	250
28	1,390	2,720	3,300	2,810	805	5,910	3,000	1,800	2,170	1,050	457	269
29	1,300	2,520	2,980	3,090	------	4,480	2,410	1,820	3,120	760	373	146
30	1,610	2,120	3,780	2,910	------	4,140	1,920	2,680	2,230	735	302	163
31	1,470	------	7,290	2,370	------	4,320	------	2,890	------	548	361	------
TOTAL	53,528	172,970	113,980	91,770	56,500	195,850	100,410	43,495	85,310	48,148	31,579	5,986
MEAN	1,727	5,766	3,677	2,960	2,018	6,318	3,347	1,403	2,844	1,553	1,019	200
MAX	3,970	12,400	7,290	8,040	7,020	10,800	5,610	2,890	7,120	5,740	2,640	379
MIN	618	1,460	1,530	1,000	755	765	1,920	770	695	400	290	120
CFSM	.81	2.71	1.73	1.39	.95	2.97	1.57	.66	1.34	.73	.48	.09
IN.	.94	3.02	1.99	1.60	.99	3.42	1.75	.76	1.49	.84	.55	.10

CAL YR 1972 TOTAL 880,010 MEAN 2,404 MAX 12,400 MIN 150 CFSM 1.13 IN 15.38
WTR YR 1973 TOTAL 999,526 MEAN 2,738 MAX 12,400 MIN 120 CFSM 1.29 IN 17.46

PEAK DISCHARGE (BASE, 8,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	1400	14.83	12,600	3-12	0900	13.48	10,600
1-1	0500	11.67	8,300	3-19	0700	13.72	11,000

04184500 Bean Creek at Powers, Ohio

LOCATION.--Lat 41°40'39", long 84°13'56", in NE 1/4 sec. 24, T.9 S., R.1 E., Fulton County, on right bank at downstream side of bridge on U.S. Highway 20, 1 mi (2 km) east of Powers, 2.2 mi (3.5 km) upstream from Iron Creek, 3 mi (5 km) downstream from Silver Creek, and 5.2 mi (8.4 km) east of Fayette.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 722.57 ft (220.239 m) above mean sea level. Prior to Jan. 18, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 159 ft³/s (4.503 m³/s), 10.48 in/yr (266.2 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft³/s (35.1 m³/s) Mar. 12, gage height, 8.36 ft (2.548 m); minimum, 14 ft³/s (0.40 m³/s) Sept. 16, 17.

Period of record: Maximum discharge, 4,250 ft³/s (120 m³/s) Apr. 29, 1956, gage height, 13.02 ft (4.212 m); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 9, 1964.

REMARKS.--Records good. Water-quality records for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1307: 1948(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	92	180	1,020	178	120	448	145	820	241	252	21
2	119	195	173	818	297	312	468	152	634	183	186	20
3	99	350	169	596	492	641	420	176	461	264	119	19
4	85	255	166	791	386	723	362	176	375	504	83	18
5	80	195	156	688	315	636	320	161	337	405	65	17
6	76	157	310	552	270	583	283	144	304	260	59	17
7	72	144	359	450	240	534	255	132	400	186	53	16
8	67	441	275	370	210	578	231	140	367	144	48	16
9	60	450	247	290	160	455	220	280	278	119	43	16
10	55	325	203	240	150	439	380	263	228	102	72	16
11	52	311	170	190	140	778	364	237	192	94	76	16
12	51	297	161	150	130	1,160	304	188	167	84	55	16
13	49	255	346	140	120	854	262	160	178	74	41	15
14	47	826	421	130	120	675	226	141	162	66	37	15
15	44	1,030	366	120	110	811	200	128	137	58	34	15
16	44	672	307	120	100	642	185	119	121	50	33	14
17	42	510	235	120	94	616	193	111	110	47	31	15
18	40	413	210	150	98	641	222	101	102	43	29	17
19	39	356	208	236	100	659	227	94	95	41	28	17
20	38	393	220	240	110	740	221	90	88	43	31	17
21	37	428	289	186	110	720	208	86	77	47	31	16
22	38	385	333	299	110	681	237	83	71	46	29	16
23	71	337	355	534	110	650	484	162	67	43	26	16
24	155	290	370	393	110	635	418	454	68	41	25	16
25	136	252	409	284	100	644	333	462	70	40	25	16
26	115	240	377	241	95	707	266	513	74	40	24	16
27	98	249	344	248	90	644	228	634	420	41	23	16
28	88	241	308	266	85	535	188	652	313	39	22	17
29	91	217	278	247	------	463	162	730	466	36	21	29
30	108	198	357	200	------	497	148	948	354	35	20	26
31	101	------	960	192	------	448	------	1,000	------	47	21	------
TOTAL	2,344	10,504	9,262	10,501	4,630	19,220	8,463	8,862	7,536	3,463	1,642	517
MEAN	75.6	350	299	339	165	620	282	286	251	112	53.0	17.2
MAX	155	1,030	960	1,020	492	1,160	484	1,000	820	504	252	29
MIN	37	92	156	120	85	120	148	83	67	35	20	14
CFSM	.37	1.70	1.45	1.65	.80	3.01	1.37	1.39	1.22	.54	.26	.08
IN.	.42	1.90	1.67	1.90	.84	3.47	1.53	1.60	1.36	.63	.30	.09

CAL YR 1972 TOTAL 59,687 MEAN 163 MAX 1,030 MIN 19 CFSM .79 IN 10.78
WTR YR 1973 TOTAL 86,953 MEAN 238 MAX 1,160 MIN 14 CFSM 1.16 IN 15.70

PEAK DISCHARGE (BASE, 1,200 FT³/S).--Mar. 12 (0930) 1,240 ft³/s (8.36).

04185000 Tiffin River at Stryker, Ohio

LOCATION.--Lat 41°30'17", long 84°25'49", in SW 1/4 sec. 5, T.6 N., R.4 E., Williams County, on right bank 0.5 mi (0.8 km) downstream from bridge on State Highway 191 at west edge of Stryker, 0.6 mi (1.0 km) upstream from Penn Central bridge, and 1.6 mi (2.6 km) downstream from Leatherwood Creek.

DRAINAGE AREA.--410 mi^2 (1,060 km^2).

PERIOD OF RECORD.--September 1921 to September 1928 (published as "near Stryker"), October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 685.1 ft (208.82 m) above mean sea level. Prior to Sept. 30, 1928, nonrecording gage at site 3.5 mi (5.6 km) downstream at different datum. Oct. 13, 1940, to Jan. 17, 1941, nonrecording gage and Jan. 18, 1941, to Sept. 30, 1953, water-stage recorder, at site 0.5 mi (0.8 km) downstream at same datum.

AVERAGE DISCHARGE.--40 years, 306 ft^3/s (8.666 m^3/s), 10.13 in/yr (257.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft^3/s (50.4 m^3/s) Nov. 17, gage height, 12.49 ft (3.807 m); minimum, 19 ft^3/s (0.54 m^3/s) Sept. 15-19.

Period of record: Maximum discharge, 6,640 ft^3/s (188 m^3/s) Apr. 25, 1950; maximum gage height, 16.16 ft (4.926 m) May 1, 1956; minimum discharge, 3.6 ft^3/s (0.10 m^3/s) Aug. 30, 31, 1953.

Flood in March 1913 reached a stage of 16.0 ft (4.88 m), from floodmarks, discharge, 7,600 ft^3/s (215 m^3/s). Flood in 1937 reached a stage of 15.0 ft (4.57 m), from information by local resident, discharge, 6,000 ft^3/s (170 m^3/s).

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1144: 1922-28. WSP 1387: 1925. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	220	301	1,060	350	220	893	212	1,370	920	205	24
2	270	322	278	1,350	472	403	854	213	1,520	726	267	25
3	200	573	255	1,410	715	672	810	230	1,380	561	270	24
4	151	658	246	1,630	815	896	766	254	1,310	808	181	23
5	122	646	239	1,570	848	1,150	690	252	1,310	986	120	22
6	109	490	393	1,470	757	1,300	589	223	1,060	1,030	87	22
7	100	351	585	1,340	628	1,300	483	197	832	878	71	21
8	92	633	630	1,030	531	1,220	403	191	655	562	62	21
9	85	826	546	644	440	1,110	360	259	577	315	56	21
10	77	911	394	465	350	1,050	441	371	469	264	55	21
11	70	983	298	343	310	1,180	555	385	365	214	76	20
12	81	896	247	278	270	1,450	612	332	300	162	96	20
13	89	754	433	245	240	1,680	555	270	340	132	80	20
14	79	1,080	500	235	220	1,740	436	222	562	112	57	20
15	72	1,390	580	239	210	1,680	357	193	583	95	46	19
16	68	1,640	480	229	190	1,470	314	174	393	81	41	19
17	63	1,690	400	222	180	1,420	300	162	268	71	38	19
18	62	1,380	320	252	180	1,370	299	150	210	64	35	19
19	60	1,110	280	346	200	1,390	312	138	179	57	34	20
20	57	881	300	400	220	1,480	325	131	158	54	34	20
21	58	742	387	371	230	1,580	325	123	137	60	36	20
22	62	672	480	385	230	1,590	350	115	117	70	37	20
23	94	618	543	682	230	1,500	451	126	103	66	34	20
24	192	535	603	800	220	1,400	540	297	104	58	32	20
25	275	430	655	821	210	1,330	574	469	104	54	31	20
26	255	380	675	684	190	1,400	514	570	106	53	30	20
27	210	373	670	541	180	1,390	401	606	263	52	29	21
28	178	381	618	533	170	1,320	318	670	604	57	27	21
29	164	368	525	541	------	1,160	264	738	866	51	26	21
30	185	331	531	472	------	1,050	227	814	947	44	25	26
31	222	------	824	376	------	953	------	902	------	99	24	------
TOTAL	4,110	22,264	14,216	20,964	9,786	38,854	14,318	9,989	17,192	8,756	2,242	629
MEAN	133	742	459	676	350	1,253	477	322	573	282	72.3	21.0
MAX	308	1,690	824	1,630	848	1,740	893	902	1,520	1,030	270	26
MIN	57	220	239	222	170	220	227	115	103	44	24	19
CFSM	.32	1.81	1.12	1.65	.85	3.06	1.16	.79	1.40	.69	.18	.05
IN.	.37	2.02	1.29	1.90	.89	3.53	1.30	.91	1.56	.79	.20	.06

CAL YR 1972 TOTAL 113,767 MEAN 311 MAX 1,760 MIN 32 CFSM .76 IN 10.32
WTR YR 1973 TOTAL 163,320 MEAN 447 MAX 1,740 MIN 19 CFSM 1.09 IN 14.82

PEAK DISCHARGE (BASE, 1,850 FT^3/S).--No peak above base.

04186500 Auglaize River near Fort Jennings, Ohio

LOCATION.--Lat 40°56'55", long 84°15'58", in SE 1/4 sec. 15, T.1 S., R.5 E., Putnam County, on left bank 200 ft (61 m) upstream from bridge on U.S. Highway 224, 3.5 mi (5.6 km) northeast of Fort Jennings, 6 mi (10 km) upstream from Ottawa River, and 7.3 mi (11.7 km) downstream from Jennings Creek.

DRAINAGE AREA.--332 mi² (860 km²).

PERIOD OF RECORD.--August 1921 to December 1935. October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 713.6 ft (217.51 m) above mean sea level. Prior to Oct. 6, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--47 years, 284 ft³/s (8.043 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,480 ft³/s (127 m³/s) Nov. 16, gage height, 13.40 ft (4.084 m); minimum, 21 ft³/s (0.59 m³/s) Sept. 9, 10.

Period of record: Maximum discharge, about 12,000 ft³/s (340 m³/s) Jan. 23, 1959; maximum gage height, 20.30 ft (6.187 m) Jan. 23, 1959, from floodmark (ice jam); minimum discharge, 4.5 ft³/s (0.13 m³/s) Oct. 7. 1956, mi (3,147 km) nimum gage height, 0.75 ft (0.229 m) Aug. 28, 1932.

REMARKS.--Records good except those for January and February, which are fair. Beginning Jan. 4, 1971, water was diverted at a point 24.3 mi (39.1 km) upstream from station into Lake Bresler. Storage in Lake Bresler is available for low-flow augmentation and water supply of city of Lima, in Ottawa River basin. Net withdrawal totaled 511 mil gal (1.934 hm³), equivalent to a mean withdrawal of 2.2 ft³/s (0.062 m³/s). No releases have been made for low-flow augmentation. Some diversion from Grand Lake to Auglaize River basin through Miami and Erie Canal into Jennings Creek at a point 9.2 mi (14.8 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: 1932. WSP 974: 1930(M). WSP 1307: 1922-24(M), 1926-27(M), 1929(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	788	138	286	865	276	72	890	238	186	364	213	45
2	534	1,340	257	460	740	78	945	222	153	241	111	41
3	301	3,280	226	312	1,220	114	615	204	124	1,510	78	39
4	214	3,410	211	680	775	241	480	183	122	2,870	67	37
5	290	1,550	297	848	468	480	688	160	675	2,670	61	36
6	344	549	1,720	478	351	760	733	136	2,040	798	56	34
7	322	433	3,500	292	287	530	462	120	3,400	378	49	33
8	226	2,010	3,600	210	250	913	346	124	2,560	281	44	31
9	168	3,170	1,000	180	190	840	290	295	940	207	41	23
10	127	2,500	450	150	160	1,280	342	310	420	162	40	27
11	97	885	320	130	130	2,560	484	312	287	114	40	30
12	340	624	350	120	110	3,480	418	530	235	103	49	29
13	464	490	1,590	110	100	2,270	1,080	286	563	84	65	27
14	294	2,200	2,350	100	110	1,180	1,250	195	760	70	296	28
15	238	4,120	1,130	95	120	2,690	625	159	369	66	1,990	28
16	182	4,120	486	90	110	2,360	430	155	229	57	2,590	27
17	163	1,640	400	86	110	1,860	516	145	171	56	1,300	30
18	133	645	330	82	110	3,220	478	125	143	50	449	37
19	119	464	320	80	100	3,190	492	112	120	47	399	30
20	103	560	350	82	95	1,720	392	210	106	47	364	24
21	95	810	635	86	90	1,020	337	355	106	235	410	22
22	88	605	790	130	86	768	484	220	106	830	256	23
23	100	436	750	412	82	628	1,750	173	86	1,370	174	24
24	104	335	685	452	78	524	1,770	132	96	1,050	121	29
25	100	286	698	292	76	518	750	246	89	422	92	31
26	99	286	623	225	74	1,140	436	1,390	85	397	79	29
27	96	414	552	250	72	1,100	313	1,290	333	284	69	28
28	91	494	442	369	70	655	263	590	648	176	61	29
29	90	438	351	708	------	440	416	349	863	152	54	33
30	95	335	408	560	------	740	294	266	770	111	53	27
31	99	------	433	324	------	653	------	225	------	170	50	------
TOTAL	6,504	38,567	25,940	9,258	6,440	38,024	18,769	9,457	16,988	15,374	9,719	915
MEAN	210	1,286	837	299	230	1,227	626	305	566	496	314	30.5
MAX	788	4,120	3,600	865	1,220	3,480	1,770	1,390	3,400	2,870	2,590	45
MIN	88	138	211	80	70	72	263	112	85	47	40	22

CAL YR 1972 TOTAL 177,710 MEAN 486 MAX 5,810 MIN 21
WTR YR 1973 TOTAL 195,955 MEAN 537 MAX 4,120 MIN 22

PEAK DISCHARGE (BASE, 2,700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0330	12.25	3,560	12-8	0630	13.08	4,220	3-18	2100	12.17	3,500
11-9	1900	11.90	3,300	3-12	0930	12.28	3,580	6-7	1400	12.25	3,560
11-16	0100	13.40	4,480	3-15	1630	11.25	2,850	7-4	2230	11.72	3,170

04187500 Ottawa River at Allentown, Ohio

LOCATION.--Lat 40°45'18", long 84°11'41", in NW 1/4 sec. 29, T.3 S., R.6 E., Allen County, on left bank at upstream side of bridge on State Highway 81 at Allentown, 0.3 mi (0.5 km) downstream from Kessler Run, and 1.5 mi (2.4 km) upstream from McBride Ditch.

DRAINAGE AREA.--160 mi² (414 km²).

PERIOD OF RECORD.--October 1923 to December 1935, August 1943 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 789.14 ft (240.530 m) above mean sea level. Prior to Oct. 1, 1925, nonrecording gage and Oct. 1, 1925, to Dec. 30, 1935, water-stage recorder, at site 35 ft (11 m) downstream at same datum.

AVERAGE DISCHARGE.--42 years, 125 ft³/s (3.540 m³/s), 10.61 in/yr (269.5 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,960 ft³/s (83.8 m³/s) June 6, gage height, 7.92 ft (2.414 m); minimum discharge, 18 ft³/s (0.51 m³/s) Sept. 16; minimum gage height, 2.55 ft (0.777 m) Aug. 9.

Period of record: Maximum discharge, 7,740 ft³/s (219 m³/s) Jan. 22, 1959, gage height, 10.88 ft (3.316 m), from rating curve extended above 4,800 ft³/s (136 m³/s); minimum. 1.4 ft³/s (0.040 m³/s) June 28, 29, 1933.

Flood of Mar. 15, 1939, reached a stage of 10.1 ft (3.08 m), discharge, 6,160 ft³/s (174 m³/s), and flood in May 1943 reached a stage of about 10 ft (3 m), discharge, about 6,000 ft³/s (170 m³/s).

REMARKS.--Records good except those for the winter period, which are fair. Diurnal fluctuation and some regulation caused by operation of water-supply and sewage-treatment plants of city of Lima upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1004: 1924. WSP 1144: 1944(M). WSP 1207: 1927. WSP 1387: 1924(M), 1927-28(M), 1929, 1930(M), 1935(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	73	110	377	112	40	633	113	92	94	51	28
2	291	1,420	100	176	566	48	572	98	75	134	43	26
3	88	1,540	110	112	690	147	297	89	80	1,070	41	25
4	76	718	100	392	358	300	292	73	132	542	39	27
5	102	317	210	326	159	410	535	69	953	146	40	26
6	81	166	1,200	148	124	443	309	68	2,750	86	38	26
7	57	327	1,900	99	100	638	192	64	2,090	68	38	27
8	40	1,720	1,200	83	80	605	148	236	776	63	39	26
9	31	1,520	500	64	66	336	145	225	285	56	35	25
10	32	644	250	55	58	1,040	297	99	158	46	42	25
11	33	462	200	50	52	1,510	244	73	106	42	39	26
12	100	316	220	48	48	1,350	302	87	144	39	136	25
13	108	258	1,100	46	46	535	735	84	998	38	59	23
14	97	2,280	1,000	44	52	822	351	75	1,050	36	430	23
15	82	2,000	450	42	66	1,360	177	70	334	34	866	26
16	84	1,500	240	41	57	720	140	43	162	35	205	21
17	58	900	180	40	52	1,940	275	44	114	36	91	21
18	45	350	160	41	56	1,820	183	43	83	33	62	26
19	37	220	150	45	52	991	169	78	65	33	51	27
20	32	430	290	48	48	681	172	88	83	57	65	25
21	31	470	400	50	44	512	140	66	61	704	57	24
22	44	320	445	97	42	429	553	57	53	847	40	25
23	56	200	411	245	40	327	967	63	47	372	33	35
24	39	170	360	166	38	328	443	68	88	129	33	27
25	42	140	370	88	36	460	205	377	58	127	31	28
26	50	180	283	81	34	799	128	1,430	47	112	32	28
27	50	240	238	105	33	466	114	1,370	265	144	32	27
28	53	300	164	299	35	227	501	525	174	100	29	28
29	67	200	128	482	------	194	355	272	349	75	30	27
30	63	150	172	212	------	361	147	296	176	80	30	25
31	37	------	421	116	------	421	------	180	------	86	29	------
TOTAL	2,640	19,531	13,062	4,218	3,144	20,260	9,721	6,523	11,848	5,464	2,786	778
MEAN	85.2	651	421	136	112	654	324	210	395	176	89.9	25.9
MAX	634	2,280	1,900	482	690	1,940	967	1,430	2,750	1,070	866	35
MIN	31	73	100	40	33	40	114	43	47	33	29	21
CFSM	.53	4.07	2.63	.85	.70	4.09	2.03	1.31	2.47	1.10	.56	.16
IN.	.61	4.54	3.04	.98	.73	4.71	2.26	1.52	2.75	1.27	.65	.18

CAL YR 1972 TOTAL 85,596 MEAN 234 MAX 3,160 MIN 21 CFSM 1.46 IN 19.90
WTR YR 1973 TOTAL 99,975 MEAN 274 MAX 2,750 MIN 21 CFSM 1.71 IN 23.24

PEAK DISCHARGE (BASE, 1,600 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-2	1915	6.76	2,020	3-11	1915	6.66	1,980	5-25	2230	6.23	1,700
11-8	1115	6.61	1,930	3-15	0115	6.16	1,670	5-27	0600	6.25	1,720
11-14	1530	7.63	2,680	3-17	1415	7.16	2,290	6-6	1945	7.92	2,960
12-7	Unknown	7.91	2,950								

04189000 Blanchard River near Findlay, Ohio

LOCATION.--Lat 41°03'21", long 83°41'17", on east line of sec. 10, T.1 N., R.10 E., Hancock County, on left bank at upstream side of county road bridge, 2 mi (3 km) west of Findlay, 3 mi (5 km) downstream from Eagle Creek, and 3 mi (5 km) upstream from Aurand Run.

DRAINAGE AREA.--346 mi² (896 km²).

PERIOD OF RECORD.--October 1923 to December 1935, October 1940 to current year. Monthly discharge only for October 1923, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 754.55 ft (229.987 m) above mean sea level. Prior to July 24, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 242 ft³/s (6.853 m³/s), 9.50 in/yr (241.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,850 ft³/s (194 m³/s) May 27, gage height, 12.85 ft (3.917 m); minimum, 17 ft³/s (0.48 m³/s) Sept. 16, 22.

Period of record: Maximum discharge, 15,000 ft³/s (425 m³/s) Feb. 11, 1959, gage height, 16.76 ft (5.108 m); minimum, 0.4 ft³/s (0.011 m³/s) Aug. 26, 27, Sept. 3, 1930.

Flood in March 1913 reached a stage of 18.5 ft (5.64 m); discharge, 22,000 ft³/s (623 m³/s), from rating curve extended above 10,000 ft³/s (283 m³/s).

REMARKS.--Records good. Water is diverted upstream from station into Findlay Reservoir. Storage in Findlay Reservoir used for water supply of city of Findlay, and is available for low-flow augmentation. All water returns to stream upstream from station. No releases have been made for low-flow augmentation. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 974: 1942. WSP 1054: 1927-30, 1933(M), 1945. WSP 1387: 1926, 1928(M), 1930(M), 1952. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,070	189	264	1,040	270	100	1,180	285	381	158	83	26
2	1,410	2,280	219	623	979	160	900	243	249	143	69	26
3	596	3,220	201	360	1,300	325	528	207	219	291	59	28
4	332	2,240	225	904	849	605	500	178	237	426	52	27
5	267	1,270	423	961	437	758	1,010	165	1,360	318	42	26
6	249	508	2,710	480	314	804	788	145	3,410	219	39	25
7	213	767	3,780	250	250	672	426	133	3,460	145	36	23
8	192	3,510	2,740	190	200	444	304	186	2,230	105	31	22
9	158	3,520	1,170	160	170	349	261	285	1,020	49	31	24
10	123	2,320	528	130	140	1,220	584	282	387	81	28	22
11	103	1,290	402	110	120	2,530	686	556	240	71	34	22
12	201	828	468	100	110	3,150	472	860	234	59	42	22
13	321	632	2,450	95	110	1,790	722	363	1,240	52	31	22
14	294	3,570	2,310	90	120	1,470	645	210	1,060	45	120	21
15	210	4,780	1,310	86	130	3,220	363	158	423	40	300	20
16	168	3,550	520	82	120	2,410	279	135	267	39	686	18
17	155	1,770	318	76	120	3,270	294	128	210	37	958	19
18	130	677	304	72	120	3,630	381	130	173	46	240	20
19	112	472	318	93	110	2,900	360	138	143	37	93	20
20	99	965	514	93	100	1,780	291	138	128	46	81	19
21	87	972	920	91	90	1,270	249	175	108	50	110	19
22	85	596	1,110	207	80	961	468	163	95	192	143	26
23	115	395	1,060	672	76	699	1,090	143	89	423	67	24
24	140	304	996	488	72	632	668	204	150	318	65	21
25	145	264	954	261	68	695	384	264	113	158	54	21
26	140	291	808	198	66	1,190	258	4,360	103	580	43	21
27	122	456	713	243	65	982	318	5,350	339	1,110	40	20
28	110	645	549	508	64	528	1,210	2,970	321	440	37	21
29	124	456	412	1,040	------	374	1,010	1,130	456	163	34	46
30	155	318	504	592	------	1,130	456	824	243	93	33	28
31	167	------	904	297	------	1,110	------	540	------	97	29	------
TOTAL	8,793	43,055	30,047	10,592	6,649	41,158	17,085	21,048	19,568	6,071	3,710	699
MEAN	284	1,435	971	342	237	1,328	570	679	652	196	120	23.3
MAX	2,070	4,780	3,780	1,040	1,300	3,630	1,210	5,350	3,460	1,110	958	46
MIN	85	189	201	72	64	100	249	128	89	37	28	18
CFSM	.82	4.15	2.81	.99	.69	3.84	1.65	1.96	1.88	.57	.35	.07
IN.	.95	4.63	3.23	1.14	.71	4.43	1.84	2.26	2.10	.65	.40	.08

CAL YR 1972 TOTAL 174,269 MEAN 476 MAX 5,230 MIN 14 CFSM 1.38 IN 18.74
WTR YR 1973 TOTAL 208,515 MEAN 571 MAX 5,350 MIN 18 CFSM 1.65 IN 22.42

PEAK DISCHARGE (BASE, 2,400 FT³/S)

DATE	TIME	G. H.	DISCHARGE
11-3	0800	9.28	3,490
11-8	2230	10.27	4,190
11-15	0630	11.41	5,210
12-7	0600	10.35	4,250
12-13	1900	8.23	2,920
3-12	0500	9.41	3,570
3-15	1130	9.24	3,460
3-17	2400	10.10	4,050
5-27	0100	12.85	6,850
6-7	0700	10.39	4,280

04191500 Auglaize River near Defiance, Ohio

LOCATION.--Lat 41°14'15", long 84°23'57", in NE 1/4 sec. 9, T.3 N., R.4 E., Defiance County, on right bank 125 ft (38 m) downstream from dam of Toledo Edison Co., 0.2 mi (0.3 km) upstream from Jackson ditch, and 3 mi (5 km) south of Defiance.

DRAINAGE AREA.--2,318 mi^2 (6,004 km^2).

PERIOD OF RECORD.--May to August 1903 (gage heights only), April 1915 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 659.70 ft (201.077 m) above mean sea level. May 20 to Aug. 8, 1903, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum. Apr. 13, 1915, to Dec. 6, 1933, nonrecording gage near right bank on upstream side of dam at datum 6.00 ft (1.829 m) higher, and auxiliary tailwater staff gage near right bank on downstream side of dam at present datum.

AVERAGE DISCHARGE.--58 years, 1,691 ft^3/s (47.89 m^3/s).

EXTREMES.--Current year: Maximum discharge, 21,200 ft^3/s (600 m^3/s) Mar. 12, gage height, 17.01 ft (5.185 m); minimum, 25 ft^3/s (0.71 m^3/s) May 21 result of gate operation.

Period of record: Maximum discharge, 52,500 ft^3/s (1,490 m^3/s) Feb. 16, 1950, Feb. 12, 1959, gage height, 26.4 ft (8.05 m), from graph based on hourly powerplant tailwater-gage readings and gage readings, respectively; maximum gage height, 27.65 ft (8.428 m) Feb. 13, 1959, from floodmark (ice jam); minimum daily discharge, 0.5 ft^3/s (0.014 m^3/s) Oct. 13, 14, 1952, during repairs to powerplant dam.

Flood in March 1913 reached a stage of 38.8 ft (11.83 m), from reading on powerplant tailwater gage at present datum; discharge, 120,000 ft^3/s (3,400 m^3/s), from rating curve extended above 51,000 ft^3/s (1,440 m^3/s).

REMARKS.--Records good. Flow regulated by dam at former powerplant 125 ft (38 m) upstream from station; reservoir capacity, 9,800 acre-ft (12.1 hm^3), operation of plant discontinued Jan. 10, 1963; occasional gate operation subsequently. Some diversion by Miami and Erie Canal from Grand Lake into Jennings Creek, tributary to Auglaize River 70 mi (113 km) upstream from station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 954: 1941. WSP 1912: Drainage area. WRD Ohio 1972: 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.000	1.270	2.100	8.040	2.400	680	4.150	2.040	2.060	2.850	696	173
2	9.220	6.580	1.710	5.700	3.710	524	5.160	1.420	1.540	1.420	640	164
3	4.970	15.300	1.380	4.220	8.340	725	4.400	1.180	1.350	7.330	450	155
4	4.090	15.900	1.230	4.100	8.200	1.590	2.850	1.020	1.110	11.100	346	142
5	3.160	13.700	1.290	4.400	6.580	3.380	2.460	845	2.250	8.460	286	124
6	2.640	7.050	8.440	3.740	3.150	5.930	3.080	765	9.780	3.410	238	109
7	1.830	6.380	13.700	2.490	2.100	3.620	2.640	677	14.300	2.680	207	102
8	1.160	8.440	15.900	1.840	1.240	4.130	2.400	668	17.000	1.550	186	93
9	1.380	12.700	12.000	1.450	1.100	4.960	1.960	905	11.600	1.020	173	99
10	1.020	12.900	6.310	805	960	5.300	1.250	1.690	5.820	735	142	102
11	795	9.760	2.640	160	840	12.100	2.080	1.860	2.000	621	151	94
12	1.090	6.220	3.410	649	760	18.700	2.500	2.040	1.690	526	155	86
13	3.920	3.610	4.290	705	720	17.600	3.590	1.970	6.650	427	212	81
14	4.350	13.000	9.160	631	680	12.300	5.530	3.220	10.400	366	292	81
15	3.330	17.000	9.640	577	560	14.900	4.330	1.190	8.920	304	1.500	90
16	2.480	19.900	5.570	550	640	16.200	2.880	659	3.760	276	5.430	81
17	1.650	16.500	4.370	542	620	14.800	2.510	677	2.160	246	4.560	87
18	1.280	9.480	3.000	596	600	16.200	3.490	631	735	217	2.480	81
19	1.000	5.700	1.700	785	620	18.600	4.130	586	875	202	1.650	90
20	795	2.990	1.900	815	640	16.100	2.740	588	835	207	1.210	73
21	660	4.830	2.700	631	660	11.500	2.570	207	735	222	1.010	70
22	577	5.020	5.060	815	680	7.460	2.530	30	649	1.100	905	93
23	865	3.770	6.600	2.150	700	4.880	6.070	151	568	2.550	560	70
24	1.520	2.690	4.690	3.360	660	3.900	7.910	705	725	2.950	508	64
25	1.730	2.050	4.150	3.010	560	3.730	5.160	605	1.190	1.930	427	96
26	1.520	1.870	3.620	2.130	480	4.350	2.520	5.540	1.160	1.540	366	102
27	1.210	2.380	3.730	1.780	460	6.400	1.440	11.200	4.060	1.410	280	94
28	958	2.940	3.080	2.460	440	4.650	1.560	9.840	4.650	1.300	238	93
29	926	3.050	2.560	3.890	------	2.880	2.050	7.420	5.690	1.310	207	102
30	1.020	2.660	3.160	4.330	------	2.780	2.600	6.070	5.400	968	186	105
31	1.070	------	6.490	3.290	------	3.710	------	4.370	------	649	177	------
TOTAL	74.176	235.670	155.640	70.629	49.200	244.279	98.720	71.019	129.662	59.991	25.928	3.002
MEAN	2.393	7.856	5.021	2.278	1.757	7.880	3.291	2.291	4.322	1.935	836	100
MAX	12.000	19.900	15.900	8.040	8.340	18.700	7.910	11.200	17.000	11.100	5.430	173
MIN	577	1.270	1.230	160	440	680	1.250	30	568	202	142	64

CAL YR 1972 TOTAL 1.112.586 MEAN 3.040 MAX 25.800 MIN 96
WTR YR 1973 TOTAL 1.217.916 MEAN 3.337 MAX 19.900 MIN 30

PEAK DISCHARGE (BASE, 13,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-1	2200	14.28	14,400	11-16	1300	16.79	20,700	3-19	0230	16.18	19,200
11-3	1200	16.09	18,900	12-8	1200	15.27	16,900	5-26	2400	13.84	13,500
11-9	2400	13.98	13,800	3-12	0930	17.01	21,200	6-8	0100	15.91	18,500

04192500 Maumee River near Defiance, Ohio

LOCATION.--Lat 41°17'31", long 84°16'52", in NW 1/4 sec. 22. T.4 N., R.5 E.. Defiance County, on left bank 40 ft (12 m) upstream from Independence Dam, 4 mi (6 km) downstream from Auglaize River, and 4.5 mi (7.2 km) east of Defiance.

DRAINAGE AREA.--5,545 mi² (14,362 km²).

PERIOD OF RECORD.--October 1924 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder upstream from concrete dam. Datum of gage is 658.56 ft (200.729 m), above mean sea level. Prior to Nov. 13, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 4,043

EXTREMES.--Current year: Maximum discharge, 37,400 ft³/s (1,060 m³/s) Nov. 16, gage height, 7.33 ft (2.234 m); minimum, 186 ft³/s (5.27 m³/s) Sept. 24, gage height, 1.56 ft (0.475 m).
Period of record: Maximum discharge, 87,100 ft³/s (2,470 m³/s) Feb. 16, 1950, gage height, 13.70 ft (4.176 m); maximum gage height, 13.77 ft (4.197 m) Feb. 11, 1959 (ice jam); minimum discharge, 2 ft³/s (0.057 m³/s) Sept. 3, 1925; minimum gage height, 1.09 ft (0.332 m) Sept. 26, 1928.

REMARKS.--Records good. Flow affected by occasional regulation of Auglaize River at hydroelectric plant of Toledo Edison Company, 7 mi (11 km) upstream. Operation of plant discontinued Jan. 10, 1963. Low-flow slightly regulated by powerplant at Fort Wayne. Ind. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 974: 1926-27, 1930. WSP 1387: 1925-28, 1946. WRD Ohio, 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,500	3,200	5,010	20,000	5,450	1,460	11,000	4,310	8,020	7,880	1,900	474
2	15,500	8,650	4,380	16,300	7,620	1,620	12,000	3,540	6,370	4,200	3,000	491
3	9,730	22,500	3,860	12,800	16,200	2,960	11,000	2,990	6,300	12,600	2,580	474
4	7,380	26,000	3,460	14,200	16,900	5,990	9,500	2,870	6,410	20,700	1,900	407
5	6,880	23,800	3,410	15,600	13,600	9,090	8,000	2,600	8,400	18,800	1,420	363
6	7,110	15,900	11,800	13,400	9,920	13,300	7,200	2,420	16,900	10,500	1,130	348
7	6,440	12,600	22,200	9,000	7,550	12,100	6,600	2,140	24,400	7,500	890	319
8	3,370	19,100	25,000	6,200	6,120	11,400	5,800	2,120	26,800	5,820	675	260
9	3,190	24,500	20,800	5,000	4,900	11,700	5,200	2,820	20,500	4,540	615	304
10	2,500	23,900	14,300	3,800	4,130	12,400	5,800	4,340	13,500	3,450	575	289
11	2,070	19,800	8,670	2,700	3,260	23,000	5,200	4,320	8,110	2,810	441	289
12	2,070	16,300	7,920	2,100	2,470	32,900	5,880	4,220	6,370	2,370	508	289
13	6,240	11,700	11,400	2,000	2,250	31,900	6,950	4,160	16,100	1,710	936	260
14	7,450	23,800	18,400	1,900	2,460	27,000	10,100	5,550	20,100	1,450	1,010	304
15	6,070	34,100	18,400	1,800	2,400	29,000	9,200	3,570	15,000	1,260	1,530	275
16	4,370	37,000	13,600	1,900	2,140	30,000	6,710	2,220	8,740	1,080	5,290	319
17	3,190	32,600	8,720	2,000	1,700	31,000	6,190	2,150	5,410	890	5,660	260
18	2,540	23,800	5,130	2,100	1,630	32,000	7,690	1,950	3,680	798	4,070	223
19	2,160	18,100	3,670	2,500	1,680	34,000	9,290	1,820	2,900	775	3,540	260
20	1,820	13,700	5,360	2,700	2,060	32,000	9,100	1,810	2,440	715	3,490	275
21	1,520	13,400	7,030	2,760	2,350	28,000	7,650	1,590	1,930	775	3,710	235
22	1,360	12,400	9,860	3,250	2,390	24,000	7,780	1,140	1,690	1,310	3,280	248
23	1,870	9,830	12,100	6,520	2,480	19,000	13,000	1,380	1,510	2,810	2,400	223
24	3,730	7,730	11,800	9,230	2,290	15,000	15,600	2,370	1,610	3,710	1,620	223
25	5,010	6,150	11,700	8,370	2,080	12,000	12,500	2,480	2,690	3,800	1,340	260
26	4,430	5,670	11,200	6,390	1,880	13,000	8,160	7,080	2,500	2,880	1,160	248
27	3,520	6,170	10,700	5,780	1,560	15,000	5,810	15,200	7,540	2,690	913	289
28	2,990	6,830	9,460	6,610	1,500	15,000	5,700	14,800	11,500	2,370	755	334
29	2,940	6,970	8,090	8,320	------	12,000	5,200	13,000	12,700	2,260	655	407
30	3,080	6,010	9,380	8,730	------	10,000	5,270	13,900	11,900	1,770	541	363
31	3,280	------	16,700	7,140	------	11,000	------	12,400	------	1,450	491	------
TOTAL	150,310	492,210	333,510	211,100	130,970	558,820	245,080	147,260	282,020	135,673	58,025	9,313
MEAN	4,849	16,410	10,760	6,810	4,678	18,030	8,169	4,750	9,401	4,377	1,872	310
MAX	16,500	37,000	25,000	20,000	16,900	34,000	15,600	15,200	26,800	20,700	5,660	491
MIN	1,360	3,200	3,410	1,800	1,500	1,460	5,200	1,140	1,510	715	441	223

CAL YR 1972 TOTAL 2,436,000 MEAN 6,656 MAX 40,700 MIN 281
WTR YR 1973 TOTAL 2,754,291 MEAN 7,546 MAX 37,000 MIN 223

PEAK DISCHARGE (BASE, 23,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1500	6.18	26,700	11-16	1100	7.33	37,400	3-12	1300	7.11	35,200
11-9	1800	5.98	25,100	12-8	1100	6.02	25,500	3-19	Unknown	----	about 35,000
								6-8	0300	6.33	28,100

04193500 Maumee River at Waterville, Ohio

LOCATION.--Lat 41°30'00", long 83°42'46", Lucas County, on downstream side of second pier from left end of bridge on State Highway 64 at Waterville, 3 mi (5 km) downstream from Tontogany Creek, and 21.1 mi (33.9 km) upstream from mouth.

DRAINAGE AREA.--6,330 mi² (16,395 km²).

PERIOD OF RECORD.--November 1898 to December 1901, August 1921 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft (181.572 m) above mean sea level. Nov. 19, 1898, to Dec. 31, 1901, Aug. 26, 1921 to July 31, 1930, nonrecording gage, Aug. 1, 1930 to Dec. 31, 1935, water-stage recorder, Mar. 14, 1939 to Mar. 12, 1940 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years (1921-35, 1939-73) 4,756 ft³/s (134.7 m³/s), 10.20 in/yr (259.1 mm/yr); includes flow in Miami and Erie Canal at Waterville 1922-29; canal was abandoned in 1929 and was filled in prior to March 1939.

EXTREMES.--Current year: Maximum discharge, 43,800 ft³/s (1,240 m³/s) Nov. 16, gage height, 10.05 ft (3.063 m); minimum, 84 ft³/s (2.38 m³/s) Sept. 25.

Period of record: Maximum discharge, 94,000 ft³/s (2,660 m³/s) Feb. 16, 1950, gage height, 14.52 ft (4.426 m); maximum gage height, 16.17 ft (4.929 m) Feb. 12, 1959 (ice jam); practically no flow at times prior to June 30, 1929, when entire river flow was being diverted by canal; minimum since canal was abandoned, 20 ft³/s (0.57 m³/s) Oct. 23, 24, 1964, gage height, 1.29 ft (0.393 m).

Flood in March 1913 reached a stage of 19.9 ft (6.07 m), from information by local resident, estimated discharge, 180,000 ft³/s (5,100 m³/s), from rating curve extended above 94,000 ft³/s (2,660 m³/s).

REMARKS.--Records good. Low flow slightly regulated by powerplants upstream from station. Small diversion upstream from gage into Portage River basin (see station 04195500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 894: 1930(M). WSP 1084: 1946. WSP 1387: 1900(M), 1922-23, 1933. WRD Ohio 1968: 1967. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,700	3,740	5,820	22,900	6,360	1,750	12,200	4,980	10,700	10,800	1,840	626
2	18,700	6,480	5,080	19,300	7,080	1,980	12,700	4,190	6,360	5,640	2,390	610
3	13,300	22,700	4,510	14,500	15,300	2,980	13,300	3,620	6,440	8,650	3,130	610
4	8,500	29,400	4,130	16,900	19,200	5,680	11,000	3,190	7,720	21,500	2,390	578
5	7,520	26,900	3,970	18,500	15,200	8,950	9,200	2,920	9,300	23,100	1,790	530
6	7,080	20,500	11,700	15,700	13,000	12,900	8,750	2,700	16,000	15,100	1,390	546
7	7,280	13,000	25,900	10,000	8,500	14,900	8,250	2,390	27,800	8,200	1,170	440
8	4,480	22,300	27,600	7,000	7,280	12,400	6,840	2,470	29,200	6,560	950	330
9	3,680	29,400	24,200	5,400	5,000	12,400	5,820	2,720	24,400	5,260	792	305
10	3,100	27,800	17,500	4,000	4,200	13,300	6,520	4,000	16,400	4,290	707	410
11	2,640	23,600	11,700	3,200	3,500	24,500	5,750	4,840	11,200	3,870	626	410
12	2,280	19,100	7,120	2,600	3,000	39,500	6,170	4,610	6,170	3,130	562	305
13	3,940	14,900	13,800	2,700	2,600	37,000	6,240	4,290	13,000	2,440	626	255
14	7,560	23,600	19,400	2,700	2,400	30,700	8,950	4,420	21,400	1,600	1,170	268
15	6,840	41,100	21,400	2,300	2,500	34,000	10,100	5,150	18,200	1,540	1,430	355
16	5,400	42,800	16,200	2,330	2,600	34,400	7,680	2,780	11,700	1,290	3,250	280
17	3,970	38,200	9,650	2,360	2,200	36,000	6,200	2,230	6,400	1,170	5,960	246
18	3,190	28,500	5,890	2,500	1,900	36,300	7,080	2,100	4,910	1,000	5,120	343
19	2,560	21,200	4,940	3,040	1,800	38,900	8,750	1,860	3,370	932	3,970	189
20	2,260	17,200	5,260	3,100	1,900	38,100	9,900	2,180	3,010	968	3,940	227
21	1,840	14,300	7,950	3,300	2,300	31,700	8,500	2,180	2,440	950	3,740	217
22	1,680	14,200	11,000	3,500	2,700	25,300	7,480	1,490	1,980	986	3,840	343
23	1,930	11,800	13,300	5,000	2,800	20,600	12,400	1,510	1,730	2,030	3,220	236
24	3,620	8,900	14,300	8,600	2,900	16,600	16,400	2,840	1,840	3,280	2,150	170
25	5,400	6,920	13,400	9,900	2,500	14,100	14,400	3,100	2,420	4,260	1,600	140
26	5,290	6,280	13,400	7,360	2,200	14,500	10,500	4,420	3,280	3,550	1,450	280
27	4,380	6,440	12,200	6,480	1,900	17,500	6,280	13,700	6,560	3,130	1,290	268
28	3,740	7,200	11,000	7,240	1,700	16,700	6,060	15,800	14,500	2,750	986	268
29	3,370	7,360	9,250	8,750	------	13,300	5,150	14,200	15,800	2,420	860	440
30	3,490	6,760	9,550	9,350	------	11,500	5,360	14,000	15,100	2,150	758	455
31	3,680	------	17,800	8,000	------	11,800	------	15,300	------	1,710	741	------
TOTAL	173,400	562,580	378,920	238,510	144,520	630,240	263,930	156,180	319,330	154,256	63,838	10,680
MEAN	5,594	18,750	12,220	7,694	5,161	20,330	8,798	5,038	10,640	4,976	2,059	356
MAX	20,700	42,800	27,600	22,900	19,200	39,500	16,400	15,800	29,200	23,100	5,960	626
MIN	1,680	3,740	3,970	2,300	1,700	1,750	5,150	1,490	1,730	932	562	140
CFSM	.88	2.96	1.93	1.22	.82	3.21	1.39	.80	1.68	.79	.33	.06
IN.	1.02	3.31	2.23	1.40	.85	3.70	1.55	.92	1.88	.91	.38	.06

CAL YR 1972 TOTAL 2,776,394 MEAN 7,586 MAX 46,900 MIN 292 CFSM 1.20 IN 16.32
WTR YR 1973 TOTAL 3,096,384 MEAN 8,483 MAX 42,800 MIN 140 CFSM 1.34 IN 18.20

04195500 Portage River at Woodville, Ohio

LOCATION.--Lat 41°26'58", long 83°21'41", in sec. 28, T.6 N., R.13 E., Sandusky County, on left bank at upstream side of bridge on U.S. Highway 20 in Woodville, 600 ft (183 m) downstream from unnamed right bank tributary, and 10.3 mi (16.6 km) upstream from Sugar Creek.

DRAINAGE AREA.--428 mi² (1,109 km²).

PERIOD OF RECORD.--July 1928 to December 1935, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.75 ft (187.376 m) above mean sea level. Prior to Oct. 8, 1933, nonrecording gage, Oct. 9, 1933, to Dec. 31, 1935, water-stage recorder, Oct. 17 to Nov. 29, 1939, nonrecording gage, all at same site and datum.

AVERAGE DISCHARGE (Adjusted for diversion).-- 41 years, 305 ft³/s (8.638 m³/s), 9.68 in/yr (245.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,530 ft³/s (185 m³/s) Nov. 15, gage height, 10.81 ft (3.295 m); minimum, 6.0 ft³/s (0.17 m³/s) Sept. 4, 5, 6.

Period of record: Maximum discharge, 11,500 ft³/s (326 m³/s) Feb. 15, 1950, gage height, 14.51 ft (4.423 m); minimum, 0.3 ft³/s (0.008 m³/s) Aug. 28, 1931.

Flood in March 1913 reached a stage of 17 ft (5 m), from information by local residents, discharge, 17,000 ft³/s (481 m³/s), from rating curve extended above 11,500 ft³/s (326 m³/s).

REMARKS.--Records good. Flow supplemented by water imported from Maumee River basin for municipal supply for city of Bowling Green 16 mi (26 km) upstream. The importation of this water began Sept. 1, 1951. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 894: 1929-30. WSP 1207: 1933. WSP 1387: 1931, 1933. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,030	189	364	1,320	316	88	902	244	457	662	43	9.3
2	1,010	1,280	307	669	942	198	1,190	212	288	324	38	12
3	493	3,940	255	409	1,810	320	869	198	219	804	32	9.3
4	312	3,040	238	1,280	940	586	569	192	278	2,210	27	7.6
5	238	1,250	448	1,480	573	678	810	160	1,150	1,370	23	6.0
6	243	664	3,020	601	430	874	783	134	4,030	528	19	6.0
7	238	578	5,560	377	345	624	516	121	5,460	281	14	6.8
8	194	3,070	3,010	300	300	916	387	238	2,900	185	11	7.6
9	155	4,450	998	204	244	629	308	1,490	882	136	10	7.6
10	117	2,410	647	170	182	1,480	508	758	462	118	9.3	8.4
11	92	1,200	485	150	150	2,810	601	967	294	136	8.4	8.4
12	104	926	386	130	140	5,330	448	637	223	97	9.3	6.8
13	401	666	1,850	110	130	3,170	341	349	725	75	10	7.6
14	380	3,060	2,410	100	120	1,950	268	230	794	60	19	7.6
15	232	6,000	1,160	90	110	4,950	228	189	330	52	23	8.4
16	161	4,390	572	80	100	3,720	210	173	287	48	173	8.4
17	141	1,760	208	74	90	3,030	216	152	318	42	90	7.6
18	129	1,010	270	80	84	4,180	270	132	202	35	47	7.6
19	98	708	320	90	80	2,820	482	120	146	31	32	6.8
20	78	1,020	642	85	80	2,120	431	363	117	35	24	8.4
21	68	1,200	1,340	90	85	1,580	312	498	100	51	22	13
22	68	796	1,340	110	95	1,100	356	300	84	70	26	10
23	102	597	1,260	700	100	797	1,650	602	69	51	20	10
24	297	460	1,140	754	95	634	964	1,170	89	42	15	9.3
25	297	385	1,190	427	90	594	512	669	369	39	13	9.3
26	216	391	1,050	333	85	789	346	1,010	215	98	13	10
27	170	646	973	407	80	740	273	1,220	1,140	445	10	13
28	141	742	731	588	76	451	502	637	1,680	257	8.4	18
29	138	602	563	738	------	361	522	436	2,230	120	6.8	23
30	182	418	657	540	------	657	299	743	1,470	74	7.6	24
31	219	------	1,440	401	------	924	------	799	------	54	8.4	------
TOTAL	8,744	47,848	34,834	12,887	7,872	49,100	16,073	15,143	27,008	8,530	812.2	297.8
MEAN	282	1,595	1,124	416	281	1,584	536	488	900	275	26.2	9.93
MAX	2,030	6,000	5,560	1,480	1,810	5,330	1,650	1,490	5,460	2,210	173	24
MIN	68	189	208	74	76	88	210	120	69	31	6.8	6.0
(/)	5.17	4.57	4.02	4.88	4.86	4.81	4.96	5.01	4.86	4.68	5.38	6.41
MEAN ≠	277	1,590	1,120	411	276	1,579	531	483	895	270	20.8	3.52
CFSM ≠	.65	3.71	2.62	.96	.64	3.69	1.24	1.13	2.09	.63	.05	.008
IN ≠	.75	4.15	3.02	1.11	.69	4.25	1.38	1.30	2.33	.73	.06	.009

CAL YR 1972 TOTAL 205,270.0 MEAN 561 MAX 6,800 MIN 15 (/) 4.82 MEAN ≠ 556 CFSM ≠ 1.30 IN ≠ 17.63
WTR YR 1973 TOTAL 229,149.0 MEAN 628 MAX 6,000 MIN 6.0 (/) 4.92 MEAN ≠ 623 CFSM ≠ 1.46 IN ≠ 19.76

PEAK DISCHARGE (BASE, 3,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1930	8.85	4,180	12-7	1700	10.28	5,900	3-18	0700	9.16	4,550
11-9	1130	9.29	4,710	3-12	1830	10.16	5,750	6-7	1030	10.12	5,700
11-15	1830	10.81	6,530	3-15	2130	9.95	5,500				

(/) Diversion, in cubic feet per second, from Maumee River basin for municipal supply; furnished by city of Bowling Green.
(≠) Adjusted for diversion.

04196000 Sandusky River near Bucyrus, Ohio

LOCATION.--Lat 40°48'13", long 83°00'21", in NE 1/4 sec. 10, T.3 S., R.16 E., Crawford County, on right bank at downstream side of bridge on township road, 1 mi (2 km) upstream from unnamed left bank tributary, 1.5 mi (2.4 km) west of Bucyrus, and 12 mi (19 km) downstream from Loss Creek.

DRAINAGE AREA.--88.8 mi² (230 km²).

PERIOD OF RECORD.--August 1925 to November 1935, July 1938 to December 1951, December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 955.04 ft (291.096 m) above mean sea level. Prior to May 11, 1940, nonrecording gage, and May 12, 1940, to December 31, 1951, water-stage recorder, at same site and datum.

AVERAGE DISCHARGE.--32 years (1925-35, 1938-51, 1964-73), 83.1 ft³/s (2.353 m³/s), 12.71 in/yr (322.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,700 ft³/s (76.5 m³/s) June 19, gage height, 8.38 ft (2.554 m); minimum, 1.8 ft³/s (0.051 m³/s) Sept. 16.

Period of record: Maximum discharge observed, 5,800 ft³/s (164 m³/s) Dec. 14, 1927, gage height, 9.15 ft (2.789 m); minimum, 0.4 ft³/s (0.011 m³/s) Sept. 29, 1941, July 16, 1942.

Flood of Mar. 23, 1913 reached a stage of 14.5 ft (4.42 m), from floodmarks. Flood of Jan. 22, 1959 reached a stage of 11.9 ft (3.63 m), from floodmarks, discharge, 13,500 ft³/s (382 m³/s), on basis of contracted-opening measurement of peak flow at site 2.8 mi (4.5 km) upstream with drainage area of 85.4 mi² (221 km²), adjusted to gage site by 0.8 power of drainage-area ratio.

REMARKS.--Records good except January and February, which are fair. Low flow slightly affected by operation of reservoirs 5.3 mi (8.5 km) to 6.0 mi (9.7 km) upstream from station, for municipal supply of Bucyrus. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: 1925-32. WSP 874: 1938. WSP 1307: 1926(M), 1928(M), 1931, 1932(M), 1934-35(M), 1939, 1940(M), 1946(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	61	79	440	93	42	107	84	89	65	21	10
2	172	568	72	143	627	165	102	72	56	55	20	9.8
3	89	775	92	103	519	220	104	65	42	156	18	9.8
4	64	218	96	455	189	200	144	57	41	843	16	9.5
5	59	123	152	218	122	216	600	48	78	433	14	9.1
6	52	86	558	95	76	194	195	40	443	146	13	9.1
7	47	168	621	56	56	117	116	36	798	81	6.0	8.5
8	42	1,170	161	46	46	91	97	47	207	50	4.9	8.5
9	33	507	131	40	40	77	118	96	95	36	5.2	11
10	26	218	120	36	37	501	353	119	61	45	6.2	8.8
11	22	179	110	32	35	932	296	510	46	58	31	4.9
12	55	134	115	28	33	603	177	149	61	30	78	6.8
13	92	117	831	26	31	200	115	87	76	22	46	7.5
14	62	1,080	343	25	39	405	85	65	44	34	134	9.8
15	43	702	152	25	46	1,780	70	58	28	50	591	3.9
16	39	236	98	25	52	463	65	53	25	34	149	3.7
17	38	149	83	26	44	750	59	45	194	20	65	7.8
18	33	109	79	30	40	418	60	40	91	15	41	5.7
19	28	100	76	38	36	274	60	43	852	12	29	7.8
20	21	238	152	36	32	260	55	218	2,440	60	26	6.5
21	25	185	345	29	28	244	53	119	768	450	23	6.2
22	24	119	395	72	25	159	52	71	194	274	14	4.9
23	35	100	270	147	23	122	50	64	107	101	11	6.0
24	50	89	198	87	21	152	49	138	103	59	9.5	15
25	42	80	149	58	19	161	42	123	95	53	7.8	4.7
26	40	98	123	56	17	180	36	615	69	67	6.5	3.9
27	33	155	124	87	16	123	107	220	79	96	9.1	9.5
28	30	164	101	284	18	89	603	116	176	46	12	6.5
29	38	117	87	314	------	95	167	117	448	32	10	14
30	65	88	124	115	------	244	102	212	111	27	4.7	7.8
31	51	------	353	89	------	146	------	164	------	25	10	------
TOTAL	2,015	8,133	6,390	3,261	2,360	9,623	4,239	3,891	7,917	3,475	1,431.9	237.0
MEAN	65.0	271	206	105	84.3	310	141	126	264	112	46.2	7.90
MAX	565	1,170	831	455	627	1,780	603	615	2,440	843	591	15
MIN	21	61	72	25	16	42	36	36	25	12	4.7	3.7
CFSM	.73	3.05	2.32	1.18	.95	3.49	1.59	1.42	2.97	1.26	.52	.09
IN.	.84	3.41	2.68	1.37	.99	4.03	1.78	1.63	3.32	1.46	.60	.10

CAL YR 1972 TOTAL 43,987.3 MEAN 120 MAX 1,550 MIN 3.5 CFSM 1.35 IN 18.43
WTR YR 1973 TOTAL 52,972.9 MEAN 145 MAX 2,440 MIN 3.7 CFSM 1.63 IN 22.19

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0500	6.16	1,260	11-14	2230	6.85	1,630	3-15	1430	7.65	2,140
11-8	1730	6.44	1,400	12-7	0200	6.10	1,230	6-19	2000	8.38	2,700

04196500 Sandusky River near Upper Sandusky, Ohio

LOCATION.--Lat 40°51'02", long 83°15'23", in sec. 21, T.2 S., R.14 E., Wyandot County, on left bank at downstream side of county road bridge, 0.7 mi (1.1 km) downstream from unnamed right bank tributary, 0.8 mi (1.3 km) upstream from Rock Run, and 2 mi (3 km) northeast of Upper Sandusky.

DRAINAGE AREA.--298 mi² (772 km²).

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Gage-height records collected at site 3 mi (5 km) upstream since 1912 (fragmentary) are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 792.25 ft (241.478 m) above mean sea level. Prior to Sept. 14, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 239 ft³/s (6.768 m³/s), 10.89 in/yr (276.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,790 ft³/s (136 m³/s) June 21, gage height, 8.65 ft (2.637 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 14.

Period of record: Maximum discharge, about 10,000 ft³/s (283 m³/s) Jan. 22, 1959; maximum gage height, 15.00 ft (4.572 m) in gage well, 15.55 ft (4.740 m) from outside floodmark, Jan. 22, 1959 (ice jam); minimum discharge, 0.50 ft³/s (0.014 m³/s) Oct. 2, 1963.

Flood in June 1937 reached a stage of 14.3 ft (4.36 m), from high-water marks in gage well.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 874: 1927-30, 1933. WSP 1387: 1922(M), 1923-29, 1944. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,000	135	245	1,320	303	100	445	326	469	394	84	21
2	1,000	720	218	698	997	154	370	257	272	253	72	21
3	421	2,130	206	392	1,740	442	327	218	193	425	63	23
4	242	1,340	251	760	912	621	327	191	174	1,270	56	21
5	196	566	332	1,080	502	575	964	166	241	2,360	49	20
6	217	365	1,130	487	374	689	847	141	592	1,230	43	20
7	173	382	2,090	260	299	456	455	123	1,190	464	40	19
8	156	2,150	1,030	180	263	322	326	130	901	267	37	17
9	134	2,710	509	140	232	256	300	194	367	195	30	18
10	100	1,260	420	120	172	558	781	372	220	253	28	20
11	79	709	380	100	140	1,810	941	1,500	160	154	30	21
12	94	586	384	90	120	2,190	637	937	135	133	48	19
13	246	455	1,500	84	110	991	496	443	150	93	101	15
14	243	2,080	2,070	80	120	797	338	279	152	75	176	11
15	164	3,110	866	80	130	2,860	253	225	113	146	1,350	15
16	125	1,710	463	80	106	3,110	211	190	88	119	1,010	18
17	112	738	380	85	110	2,140	198	168	91	84	373	18
18	103	507	320	92	120	2,280	187	144	334	62	177	14
19	90	395	290	105	110	1,200	183	136	193	51	118	12
20	78	649	321	105	100	950	190	340	2,830	50	96	15
21	66	753	755	95	90	866	189	692	4,440	524	83	14
22	67	492	1,050	134	84	669	180	355	1,460	942	67	15
23	79	366	968	300	78	505	183	234	500	429	53	17
24	110	298	743	338	74	475	181	277	359	214	45	18
25	145	263	615	199	72	538	162	607	327	186	39	15
26	120	263	489	156	70	614	140	1,980	232	347	35	21
27	104	398	462	169	68	537	193	2,240	284	542	32	18
28	92	471	396	448	74	355	1,030	878	490	289	28	15
29	90	420	315	946	------	300	891	488	1,330	151	28	20
30	98	296	340	528	------	631	429	493	813	106	29	27
31	140	------	669	371	------	690	------	677	------	88	26	------
TOTAL	7,084	26,717	20,207	10,022	7,570	28,681	12,354	15,401	19,100	11,896	4,446	538
MEAN	229	891	652	323	270	925	412	497	637	384	143	17.9
MAX	2,000	3,110	2,090	1,320	1,740	3,110	1,030	2,240	4,440	2,360	1,350	27
MIN	66	135	206	80	68	100	140	123	88	50	26	11
CFSM	.77	2.99	2.19	1.08	.91	3.10	1.38	1.67	2.14	1.29	.48	.06
IN.	.88	3.34	2.52	1.25	.94	3.58	1.54	1.92	2.38	1.49	.56	.07

CAL YR 1972 TOTAL 135,205 MEAN 369 MAX 5,520 MIN 11 CFSM 1.24 IN 16.88
WTR YR 1973 TOTAL 164,016 MEAN 449 MAX 4,440 MIN 11 CFSM 1.51 IN 20.47

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0800	6.53	2,880	3-18	0200	6.20	2,620	6-21	0430	8.65	4,790
11-15	1330	6.95	3,220	5-27	0200	6.18	2,600	7-5	0800	6.20	2,620
3-16	1300	7.24	3,450								

04196800 Tymochtee Creek at Crawford, Ohio

LOCATION.--Lat 40°55'22", long 83°20'56", in SE 1/4 sec.27, T.1 S., R.13 E., Wyandot County, on right bank at downstream side of bridge on State Highway 199 (formerly U.S. Highway 23), 0.4 mi (0.6 km) northwest of Crawford, 1.5 mi (2.4 km) downstream from Lick Run, 2.7 mi (4.3 km) upstream from Little Tymochtee Creek, and 3 mi (5 km) southeast of Carey.

DRAINAGE AREA.--229 mi² (593 km²).

PERIOD OF RECORD.--Water years 1961-64 (annual maximum), June 1964 to current year. Occasional low-flow measurements, water years 1961-63.

GAGE.--Water-stage recorder. Datum of gage is 785.86 ft (239.530 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 180 ft³/s (5.098 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Nov. 16, gage height, 7.32 ft (2.231 m); minimum, 3.6 ft³/s (0.10 m³/s) Sept. 14, 15.

Period of record: Maximum discharge, 6,040 ft³/s (171 m³/s) Apr. 22, 1964, gage height, 9.82 ft (2.993 m); maximum gage height, 11.21 ft (3.417 m) Mar. 6, 1963 (backwater from ice); no flow Aug. 10, Sept. 13-18, Oct. 23 to Nov. 4, 1964, Aug. 23-26, 1965.

Flood in January 1959 reached a stage of 12.9 ft (3.93 m), from information by local resident.

REMARKS.--Records good. Beginning Mar. 9, 1972 water was diverted at a point 29.4 mi (47.3 km) upstream from station into Killdeer Reservoir. Storage is available for low-flow augmentation. During the year, withdrawals totaled 479 mil gal (1.813 hm³) and releases totaled 610 mil gal (2.309 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ohio 1969: 1964(P), 1966(M), 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	716	73	144	725	231	35	606	257	200	203	68	8.4
2	486	692	118	655	538	50	352	209	120	99	49	7.0
3	193	1,110	103	317	918	120	264	157	80	93	38	7.0
4	104	1,220	109	440	942	267	241	120	64	254	30	7.0
5	77	1,130	194	675	454	415	502	94	405	510	22	7.0
6	70	390	1,110	478	284	486	635	75	582	522	18	5.8
7	58	340	1,510	210	215	398	356	60	834	290	14	5.3
8	54	1,160	1,640	150	185	257	222	57	665	122	11	5.8
9	44	1,480	960	130	154	228	191	114	370	74	9.8	5.8
10	37	1,820	415	110	110	425	447	218	165	90	9.1	4.8
11	33	1,100	349	75	100	1,100	655	790	96	43	7.7	4.4
12	52	502	317	52	88	1,660	466	936	69	37	7.7	4.8
13	77	366	894	42	78	1,540	494	725	71	39	22	4.4
14	128	1,430	984	35	70	906	660	294	63	25	57	4.0
15	113	2,120	858	32	65	1,270	345	174	44	17	443	8.4
16	77	2,580	429	30	60	1,710	203	144	38	36	864	19
17	58	1,500	250	30	65	2,080	171	125	32	32	1,170	20
18	50	570	210	32	70	2,000	182	96	27	22	800	19
19	51	338	190	38	68	2,010	182	80	22	15	209	17
20	46	482	230	44	62	1,260	174	134	21	12	109	15
21	36	630	443	54	56	876	179	297	21	21	88	12
22	31	450	490	75	50	630	209	241	27	261	139	15
23	38	287	770	274	46	450	274	147	42	514	88	20
24	49	200	720	345	42	377	297	132	39	303	49	35
25	52	147	630	209	40	387	261	391	34	434	35	36
26	65	144	526	125	38	514	162	1,900	31	795	27	36
27	60	277	458	127	35	554	194	1,530	38	1,060	21	36
28	50	384	391	314	32	436	680	1,090	59	1,150	17	36
29	52	314	284	610	------	274	894	405	231	498	14	38
30	61	206	290	534	------	695	474	274	349	174	12	39
31	61	------	478	294	------	900	------	338	------	99	11	------
TOTAL	3,079	23,442	16,694	7,261	5,096	24,510	10,972	11,604	4,843	7,836	4,459.3	482.9
MEAN	99.3	781	539	234	182	791	366	374	161	253	144	16.1
MAX	716	2,580	1,640	725	942	2,080	894	1,900	834	1,150	1,170	39
MIN	31	73	103	30	32	35	162	57	21	12	7.7	4.0

CAL YR 1972 TOTAL 108,101.6 MEAN 295 MAX 3,950 MIN 1.6
WTR YR 1973 TOTAL 120,279.2 MEAN 330 MAX 2,580 MIN 4.0

PEAK DISCHARGE (BASE, 1,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-10	0800	6.35	1,920	3-19	0030	6.81	2,330
11-16	0430	7.32	2,820	5-26	1945	6.47	2,020

04197000 Sandusky River near Mexico, Ohio

LOCATION.--Lat 41°02'39", long 83°11'42", in sec. 13, T.1 N., R.14 E., Seneca County, on right bank at downstream side of county road bridge, 4.1 mi (6.6 km) upstream from Honey Creek, 4.2 mi (6.8 km) north of Mexico, 4.9 mi (7.9 km) south of Tiffin, and 8.3 mi (13.4 km) downstream from Mile Run.

DRAINAGE AREA.--774 mi^2 (2,005 km^2).

PERIOD OF RECORD.--November 1898 to November 1900 (gage heights and discharge measurements only), March 1923 to December 1935, July 1938 to current year. Discharge records for November 1898 to November 1900, published in 22nd Annual Report, Part 4, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 733.1 ft (223.45 m) above mean sea level, adjustment of 1912. Prior to Aug. 15, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--47 years, 570 ft^3/s (16.14 m^3/s), 10.00 in/yr (254.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,100 ft^3/s (201 m^3/s) May 27, gage height, 13.85 ft (4.221 m); minimum, 38 ft^3/s (1.08 m^3/s) Sept. 16.

Period of record: Maximum discharge, 18,900 ft^3/s (535 m^3/s) Jan. 23, 1959, gage height, 22.43 ft (6.837 m), from floodmark; minimum, 1.8 ft^3/s (0.051 m^3/s) Oct. 31, 1942, during repairs to small dam upstream from station.

Flood in June 1937 reached a stage of 22.5 ft (6.86 m), from information by local residents, discharge, 19,000 ft^3/s (538 m^3/s).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 714: 1929-30. WSP 874: 1927(M). WSP 1387: 1925, 1928-29, 1930(M), 1931. WSP 1912: Drainage area. See also Period of Record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,550	326	541	2,580	742	230	1,810	937	1,500	1,030	263	76
2	2,420	1,700	533	2,300	1,780	401	1,150	641	884	555	206	65
3	1,440	4,040	495	1,240	3,150	747	478	588	595	545	171	56
4	794	3,440	500	[illegible]	2,440	1,220	758	489	463	1,560	149	58
5	552	2,770	679	2,400	1,430	1,390	1,410	414	1,060	3,080	130	57
6	497	1,410	2,600	1,760	1,060	1,410	2,040	351	2,385	3,050	114	54
7	464	646	5,120	847	783	1,370	1,440	302	2,680	1,590	107	55
8	405	3,880	4,470	660	650	920	571	289	2,510	741	94	43
9	344	4,930	3,020	440	577	680	565	426	1,460	672	91	53
10	286	4,730	1,560	400	450	1,540	1,440	540	732	419	82	50
11	230	3,710	1,110	450	350	2,450	2,100	1,490	476	405	86	49
12	233	2,140	972	410	320	4,710	1,910	2,590	373	246	121	47
13	419	1,340	3,110	270	300	4,350	1,240	1,800	408	261	128	46
14	530	4,140	4,080	240	280	3,460	1,220	998	391	134	190	46
15	482	6,080	3,410	240	280	4,670	494	587	322	165	440	43
16	376	5,600	1,740	230	270	5,090	633	466	263	222	2,210	40
17	305	5,240	861	220	270	6,320	553	409	389	190	1,780	44
18	267	2,440	824	224	280	6,560	528	360	303	150	1,500	40
19	238	1,420	788	234	270	5,790	514	317	416	130	714	65
20	216	1,550	848	242	260	4,570	495	701	2,200	110	330	54
21	196	1,920	1,560	235	250	3,190	490	1,150	3,430	120	244	53
22	173	1,620	2,360	253	240	2,290	490	1,010	3,970	150	228	53
23	181	1,080	2,560	453	220	1,420	615	621	1,560	800	233	53
24	267	805	2,290	465	210	1,350	616	590	680	620	176	52
25	305	659	1,940	710	200	1,330	573	782	551	700	138	71
26	311	622	1,570	480	190	1,700	474	5,890	459	1,000	118	74
27	288	900	1,360	416	180	1,600	486	6,750	436	2,000	105	71
28	257	1,140	1,170	494	180	1,260	2,140	5,410	926	1,300	93	75
29	262	1,040	939	1,470	------	896	2,480	2,670	2,540	700	84	83
30	278	832	878	1,780	------	1,730	1,740	1,440	2,020	430	75	96
31	292	------	1,600	1,840	------	2,190	------	2,040	------	320	74	------
TOTAL	17,536	74,118	55,721	25,886	18,592	77,223	32,679	43,078	36,330	23,290	10,973	1,793
MEAN	566	2,471	1,797	835	664	2,491	1,089	1,390	1,211	751	354	59.8
MAX	3,550	6,080	5,120	2,580	3,150	6,560	2,480	6,750	3,970	3,080	2,210	96
MIN	173	326	495	220	180	230	474	289	263	110	74	40
CFSM	.73	3.19	2.32	1.08	.86	3.22	1.41	1.80	1.56	.97	.46	.08
IN.	.84	3.56	2.68	1.24	.89	3.71	1.57	2.07	1.75	1.12	.53	.09

CAL YR 1972 TOTAL 355,413 MEAN 972 MAX 11,200 MIN 32 CFSM 1.26 IN 17.10
WTR YR 1973 TOTAL 417,211 MEAN 1,143 MAX 6,750 MIN 40 CFSM 1.48 IN 20.05

PEAK DISCHARGE (BASE, 4,200 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 9	0400	11.53	4,990	12-7	0600	11.89	5,280	3-17	2030	13.70	6,950
11-15	1100	12.87	6,150	3-12	0900	11.28	4,790	5-27	0030	13.85	7,100

04198000 Sandusky River near Fremont, Ohio

LOCATION.--Lat 41°18'28", long 83°09'32", in sec. 17, T.4 N., R.15 E., Sandusky County, on left bank at downstream side of county road bridge, 2.3 mi (3.7 km) upstream from Ballville diversion dam, 2.5 mi (4.0 km) downstream from Wolf Creek, and 3.5 mi (5.6 km) southwest of Fremont.

DRAINAGE AREA.--1,251 mi^2 (3,240 km^2).

PERIOD OF RECORD.--November 1898 to March 1901 (gage heights and discharge measurements only, published as "at Fremont"), October 1923 to December 1935, July 1938 to current year. Monthly discharge only for October 1923, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 626.3 ft (190.90 m) above mean sea level, adjustment of 1912. Nov. 18, 1898, to Mar. 10, 1901, nonrecording gage at site 4 mi (6 km) downstream at different datum. Nov. 8, 1923, to Sept. 5, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--47 years (1923-35, 1938-73), 941 ft^3/s (26.65 m^3/s), 10.22 in/yr (259.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft^3/s (402 m^3/s) Nov. 15, gage height, 7.35 ft (2.240 m); minimum, 53 ft^3/s (1.50 m^3/s) Sept. 17, 18, gage height, 1.03 ft (0.314 m).

Period of record: Maximum discharge, about 28,000 ft^3/s (793 m^3/s) Feb. 10, 1959; maximum gage height, 15.20 ft (4.633 m) Feb. 10, 1959, from floodmark (ice jam); minimum discharge, 4.4 ft^3/s (0.12 m^3/s) Feb. 29, 1964 (result of freezeup); minimum gage height, 0.78 ft (0.238 m) Oct. 20, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: 1931-32. WSP 874: 1938. WSP 1144: 1924-30. WSP 1307: 1925, 1928-29, 1931-35. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,400	512	1,100	4,130	1,280	300	2,950	1,860	2,640	2,130	353	81
2	4,750	2,770	888	3,590	2,940	614	2,150	1,260	1,610	1,120	281	79
3	3,130	7,990	790	2,290	4,900	1,400	1,640	1,040	1,050	1,460	235	73
4	1,610	6,280	853	2,980	4,610	2,330	1,320	878	985	2,620	197	66
5	1,020	4,620	1,340	4,010	3,130	2,440	2,440	726	1,800	3,690	173	63
6	838	2,860	6,080	3,010	1,830	2,890	3,110	622	6,040	4,010	148	62
7	767	1,780	10,900	1,650	1,310	2,450	2,540	537	5,510	2,570	128	63
8	730	7,060	6,950	954	1,080	1,730	1,550	513	4,210	1,250	116	61
9	605	9,160	4,840	750	922	1,230	1,140	927	2,910	744	105	60
10	494	7,070	2,800	640	753	2,550	2,430	1,050	1,560	555	94	62
11	396	5,850	1,810	560	659	4,880	3,240	1,610	933	562	86	59
12	395	3,900	1,550	480	502	8,630	2,930	3,350	704	435	126	58
13	862	2,370	5,730	430	510	6,490	2,020	2,680	1,380	350	138	57
14	928	8,730	7,150	400	498	5,410	1,650	1,730	857	295	159	55
15	804	13,300	5,450	380	497	9,880	1,520	1,000	605	244	611	55
16	636	9,890	3,180	360	460	8,140	1,050	750	496	213	2,240	56
17	500	8,110	2,000	350	440	10,600	847	653	518	264	2,370	54
18	424	5,380	1,800	350	420	11,800	868	585	529	241	1,820	56
19	371	2,680	1,690	370	400	9,120	945	532	526	190	1,230	65
20	322	2,870	1,670	380	380	7,340	869	1,190	1,340	167	571	70
21	283	3,290	2,860	367	360	5,390	784	1,830	3,990	210	365	67
22	259	2,800	3,970	400	340	3,870	820	1,870	4,750	470	278	64
23	261	1,970	4,360	1,030	320	2,800	1,470	1,370	3,020	1,330	258	68
24	335	1,450	3,930	1,410	300	2,240	1,280	1,130	1,230	1,100	248	72
25	471	1,170	3,370	1,190	280	2,160	984	1,080	991	701	188	71
26	472	1,080	2,730	848	260	2,620	820	6,500	735	725	147	75
27	438	1,540	2,360	715	250	2,570	939	9,570	730	1,420	125	76
28	394	1,930	1,970	941	250	1,990	4,870	7,700	1,120	1,930	109	74
29	379	1,840	1,610	2,550	------	1,510	4,310	4,820	4,200	1,750	96	85
30	446	1,440	1,430	2,650	------	2,640	3,210	2,940	3,530	976	87	95
31	506	------	2,180	1,750	------	3,550	------	2,960	------	493	87	------
TOTAL	30,226	131,692	99,341	41,915	29,881	131,564	56,696	65,263	60,499	34,215	13,169	2,002
MEAN	975	4,390	3,205	1,352	1,067	4,244	1,890	2,105	2,017	1,104	425	66.7
MAX	6,400	13,300	10,900	4,130	4,900	11,800	4,870	9,570	6,040	4,010	2,370	95
MIN	259	512	790	350	250	300	784	513	496	167	86	54
CFSM	.78	3.51	2.56	1.08	.85	3.39	1.51	1.68	1.61	.88	.34	.05
IN.	.90	3.92	2.95	1.25	.89	3.91	1.69	1.94	1.80	1.02	.39	.06

CAL YR 1972 TOTAL 586,688 MEAN 1,603 MAX 16,500 MIN 47 CFSM 1.28 IN 17.45
WTR YR 1973 TOTAL 696,463 MEAN 1,908 MAX 13,300 MIN 54 CFSM 1.53 IN 20.71

PEAK DISCHARGE (BASE, 7,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1330	5.40	8,460	12-13	2330	5.35	8,320	3-15	1700	6.17	10,700
11-9	0030	5.98	10,100	1-10	1330	5.91	9,910	3-18	0130	7.10	13,400
11-15	0630	7.35	14,200	3-12	1000	5.70	9,300	5-27	0100	6.06	10,300
12-7	0300	6.64	12,000								

04199000 Huron River at Milan, Ohio

LOCATION.--Lat 41°18'06", long 82°36'25", in SW 1/4 sec.4, T.5 N., R.22 W., Erie County, on right bank 500 ft (152 m) downstream from bridge on U.S. Highway 250, 0.2 mi (0.3 km) northwest of Milan and 2.0 mi (3.2 km) downstream from confluence of East and West Branches.

DRAINAGE AREA.--371 mi² (961 km²).

PERIOD OF RECORD.--March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 573.26 ft (174.730 m) above mean sea level. Prior to July 29, 1953, nonrecording gage at site of former highway bridge 45 ft (14 m) upstream at same datum.

AVERAGE DISCHARGE.--23 years, 290 ft³/s (8.213 m³/s), 10.62 in/yr (269.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,920 ft³/s (224 m³/s) Nov. 14, gage height, 18.21 ft (5.550 m); minimum, 19 ft³/s (0.54 m³/s) Sept. 22.

Period of record: Maximum discharge, 49,600 ft³/s (1,400 m³/s) July 5, 1969, gage height, 31.1 ft (9.48 m) (from floodmark), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.2 ft³/s (0.062 m³/s) Sept. 10, 15, 19, 20, 21, 1955.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,020	172	250	1,170	275	222	561	438	525	245	55	31
2	766	2,350	230	528	1,770	1,380	444	330	275	173	53	29
3	418	2,970	320	383	1,840	1,580	366	275	233	357	49	28
4	275	846	387	1,640	758	1,100	408	228	444	393	44	28
5	210	485	877	896	483	1,000	1,520	199	576	387	40	28
6	202	368	4,180	372	378	1,010	787	175	2,630	248	37	28
7	196	648	3,020	240	315	570	489	157	2,540	157	34	31
8	178	4,690	799	230	290	429	390	157	805	118	32	29
9	150	2,470	537	240	200	328	354	183	420	99	29	28
10	114	909	549	200	160	770	946	218	270	128	28	28
11	98	781	438	120	140	2,220	748	868	199	126	29	26
12	152	613	438	100	130	2,370	459	435	271	90	79	25
13	612	483	3,200	95	120	778	325	255	1,110	78	53	23
14	325	6,310	1,500	90	110	1,990	258	201	293	74	108	22
15	206	4,640	687	90	110	5,090	220	225	161	77	1,410	23
16	160	1,540	450	100	107	1,420	203	218	310	67	555	22
17	140	969	330	120	110	3,950	235	175	807	57	165	23
18	125	693	310	142	130	1,760	260	150	414	54	89	25
19	107	552	300	157	140	1,470	258	150	210	50	68	23
20	89	1,030	1,050	139	154	1,440	213	838	419	55	76	23
21	81	781	1,400	100	157	1,290	187	771	459	81	96	23
22	82	507	1,510	163	161	976	181	342	223	92	69	21
23	109	399	1,250	417	157	860	220	525	161	76	59	23
24	170	325	997	336	139	1,010	220	666	627	93	53	33
25	162	300	752	203	128	962	173	390	414	372	46	42
26	132	320	597	183	120	1,200	163	1,240	205	221	43	25
27	114	513	612	220	110	714	789	830	171	157	41	21
28	112	477	468	340	110	483	3,680	447	610	142	38	24
29	146	357	393	606	------	451	1,090	308	1,360	81	36	47
30	278	278	480	330	------	1,540	594	654	495	72	34	36
31	208	------	1,030	290	------	802	------	790	------	59	33	------
TOTAL	9,137	37,776	29,341	10,240	8,802	41,165	16,741	12,838	17,637	4,479	3,581	818
MEAN	295	1,259	946	330	314	1,328	558	414	588	144	116	27.3
MAX	3,020	6,310	4,180	1,640	1,840	5,090	3,680	1,240	2,630	393	1,410	47
MIN	81	172	230	90	107	222	163	150	161	50	28	21
CFSM	.80	3.39	2.55	.89	.85	3.58	1.50	1.12	1.58	.39	.31	.07
IN.	.92	3.79	2.94	1.03	.88	4.13	1.68	1.29	1.77	.45	.36	.08

CAL YR 1972 TOTAL 177,910 MEAN 486 MAX 6,310 MIN 23 CFSM 1.31 IN 17.84
WTR YR 1973 TOTAL 192,555 MEAN 528 MAX 6,310 MIN 21 CFSM 1.42 IN 19.31

PEAK DISCHARGE (BASE, 4,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	1400	16.00	5,500	3-15	0330	16.73	6,230
11-14	1430	18.21	7,920	3-17	1600	15.56	5,100
12-6	2000	16.64	6,140	4-28	0600	15.14	4,730

04199500 Vermilion River near Vermilion, Ohio

LOCATION.--Lat 41°22'55", long 82°19'01", in T.6 N., R.19 W., Lorain County, on right bank 40 ft (12 m) downstream from bridge on North Ridge Road, 3.5 mi (5.6 km) southeast of Vermilion and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--262 mi² (679 km²).

PERIOD OF RECORD.--March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 595.14 ft (181.399 m) above mean sea level. Prior to Aug. 3, 1953, nonrecording gage at site 40 ft (12 m) upstream at same datum.

AVERAGE DISCHARGE.--23 years, 234 ft³/s (6.627 m³/s), 12.13 in/yr (308.1 mm/yr).

EXTREMES.--Current record: Maximum discharge, 4,580 ft³/s (130 m³/s) Nov. 15, gage height, 6.39 ft (1.948 m); minimum, 4.8 ft³/s (0.14 m³/s) Sept. 26.

Period of record: Maximum discharge, 40,800 ft³/s (1,160 m³/s) July 6, 1969, gage height, 17.14 ft (5.224 m), from rating curve extended above 9,800 ft³/s (278 m³/s) on basis of contracted-opening measurement of peak flow; no flow at times in many years.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1912: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,230	160	188	646	220	196	339	291	380	134	24	9.5
2	1,040	1,000	175	392	1,140	1,310	268	219	200	90	21	8.3
3	386	2,100	204	243	2,070	1,740	230	183	143	120	20	7.9
4	239	888	278	818	925	1,140	316	175	386	254	17	8.3
5	175	425	624	1,060	454	834	1,250	153	272	285	15	12
6	141	282	2,070	414	315	943	1,030	125	1,170	267	13	11
7	125	425	2,380	264	204	532	448	105	1,840	129	13	9.1
8	109	2,310	777	204	215	348	295	97	821	81	12	12
9	91	2,590	431	140	180	254	277	120	321	57	11	7.9
10	74	973	420	110	154	441	787	250	184	229	9.3	7.5
11	63	543	365	90	140	1,400	772	500	127	202	8.5	7.5
12	66	420	325	80	114	1,850	428	450	101	171	13	7.2
13	278	335	1,430	70	100	779	273	300	293	88	30	6.6
14	315	3,300	1,720	60	100	1,040	201	200	204	57	22	6.6
15	172	3,730	631	60	100	3,180	163	135	125	73	221	6.6
16	121	1,530	376	60	111	1,930	140	132	232	40	574	6.6
17	116	818	260	65	120	1,690	130	126	1,810	31	258	6.3
18	85	562	250	80	130	1,670	131	105	1,560	26	169	6.3
19	81	420	240	100	140	1,110	131	95	522	23	87	5.7
20	71	631	576	118	157	1,070	127	193	382	25	54	5.4
21	62	729	1,250	85	156	949	115	448	1,020	35	39	5.4
22	62	491	1,380	125	150	722	108	228	378	155	30	5.4
23	81	386	1,210	239	140	650	105	548	184	105	26	5.4
24	93	320	852	355	130	1,030	101	667	349	130	24	5.4
25	95	264	610	223	130	1,130	92	391	212	454	20	5.4
26	103	291	460	166	120	1,230	83	516	137	130	17	5.1
27	85	370	431	169	120	788	353	1,060	101	80	14	6.0
28	85	360	360	215	120	427	2,160	402	95	54	13	9.1
29	130	296	282	460	------	312	1,290	248	263	44	12	15
30	181	219	296	350	------	504	465	234	264	33	10	15
31	204	------	472	240	------	503	------	553	------	26	9.5	------
TOTAL	7,159	27,168	21,323	7,701	8,155	31,702	12,608	9,249	14,076	3,627	1,806.3	235.5
MEAN	231	906	688	248	291	1,023	420	298	469	117	58.3	7.85
MAX	2,230	3,730	2,380	1,060	2,070	3,180	2,160	1,060	1,840	454	574	15
MIN	62	160	175	60	100	196	83	95	95	23	8.5	5.1
CFSM	.88	3.46	2.63	.95	1.11	3.90	1.60	1.14	1.79	.45	.22	.03
IN.	1.02	3.86	3.03	1.09	1.16	4.50	1.79	1.31	2.00	.51	.26	.03

CAL YR 1972 TOTAL 125,979.2 MEAN 344 MAX 3,730 MIN 6.9 CFSM 1.31 IN 17.89
WTR YR 1973 TOTAL 144,809.8 MEAN 397 MAX 3,730 MIN 5.1 CFSM 1.52 IN 20.56

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-15	0100	6.39	4,580	3-15	1400	5.90	3,500

04200500 Black River at Elyria, Ohio

LOCATION.--Lat 41°22'49", long 82°06'17", in T.6 N., R.17 W., Lorain County, on left bank in Cascade Park at Elyria, 0.8 mi (1.3 km) downstream from confluence of East and West Branches.

DRAINAGE AREA.--396 mi^2 (1,026 km^2).

PERIOD OF RECORD.--October 1944 to current year. Records for May 1903 to July 1960 (published as "near Elyria") published in WSP 97, 129, and 205, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 620.83 ft (189.229 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 312 ft^3/s (8.836 m^3/s), 10.70 in/yr (271.8 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,330 ft^3/s (151 m^3/s) Nov. 15, gage height, 10.80 ft (3.292 m); minimum, 6.8 ft^3/s (0.19 m^3/s) Sept. 10.

Period of record: Maximum discharge, 51,700 ft^3/s (1,460 m^3/s) July 6, 1969, gage height, 26.4 ft (8.05 m), from floodmark, from rating curve extended above 13,000 ft^3/s (368 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of Oct. 10, 1956 (result of temporary storage at dam upstream).

REMARKS.--Records good. Some regulation at low flow for industrial use. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,330	257	261	527	382	304	365	382	562	149	34	11
2	2,470	1,390	266	412	1,670	1,960	304	263	286	93	31	8.8
3	614	2,740	268	309	2,990	2,330	259	230	191	87	31	9.6
4	333	1,290	379	1,160	1,440	1,530	393	242	373	430	26	11
5	241	578	1,030	1,570	679	1,090	1,630	220	360	530	22	12
6	199	376	2,310	621	302	1,210	1,390	177	2,940	257	22	11
7	173	568	3,140	284	328	794	624	144	2,270	144	21	10
8	155	3,490	1,210	212	302	486	387	138	978	84	21	9.6
9	138	3,610	652	180	240	360	401	270	430	60	20	8.4
10	114	1,550	690	150	214	772	1,180	505	216	236	18	8.0
11	95	701	581	120	190	1,780	1,160	726	142	309	26	9.2
12	96	489	424	100	160	2,100	715	701	118	118	25	9.2
13	101	410	1,740	85	140	1,010	433	363	410	71	45	9.2
14	241	3,980	2,170	74	130	1,240	293	220	171	56	61	9.6
15	215	5,100	820	71	130	4,680	218	173	120	59	58	11
16	149	2,270	393	71	150	3,450	183	167	224	62	36	8.6
17	114	966	300	75	170	1,930	159	177	966	45	28	11
18	90	645	300	85	190	2,040	153	161	1,030	34	25	15
19	75	441	290	108	210	1,430	151	151	477	31	37	13
20	180	683	824	127	220	1,630	149	253	255	78	32	12
21	170	899	2,000	101	250	1,480	138	263	353	120	27	11
22	130	679	2,010	149	240	1,050	122	204	302	267	24	14
23	220	578	1,650	240	230	898	111	1,030	159	215	18	14
24	360	527	1,040	444	210	1,470	108	2,120	384	116	17	26
25	230	424	733	300	190	1,470	101	978	261	205	15	17
26	195	418	572	228	170	1,480	90	899	169	161	14	14
27	153	591	604	214	160	1,050	281	1,030	127	116	14	19
28	131	555	526	277	160	578	3,110	545	218	75	12	34
29	181	418	400	614	------	382	2,270	376	505	59	13	83
30	305	311	372	498	------	398	729	343	230	49	15	47
31	320	------	460	300	------	421	------	805	------	39	20	------
TOTAL	12,518	36,934	28,415	9,706	11,847	42,803	17,607	14,256	15,227	4,355	808	486.4
MEAN	404	1,231	917	313	423	1,381	587	460	508	140	26.1	16.2
MAX	4,330	5,100	3,140	1,570	2,990	4,680	3,110	2,120	2,940	530	61	83
MIN	75	257	261	71	130	304	90	138	118	31	12	8.0
CFSM	1.02	3.11	2.32	.79	1.07	3.49	1.48	1.16	1.28	.35	.07	.04
IN.	1.18	3.47	2.67	.91	1.11	4.02	1.65	1.34	1.43	.41	.08	.05

CAL YR 1972 TOTAL 189,272.0 MEAN 517 MAX 5,100 MIN 14 CFSM 1.31 IN 17.78
WTR YR 1973 TOTAL 194,962.4 MEAN 534 MAX 5,100 MIN 8.0 CFSM 1.35 IN 18.31

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	2100	9.62	4,270	3-15	0700	10.26	4,840
11-15	0300	10.80	5,330	4-28	1600	8.84	3,610
12-7	0400	8.81	3,390	6-6	2100	8.63	3,440

04201500 Rocky River near Berea, Ohio

LOCATION.--Lat 41°24'24", long 81°53'14", in T.6 N., R.15 W., Cuyahoga County, on right bank at downstream side of Cedar Point Road Bridge in Rocky River Reservation just downstream from confluence of East and West Branches, and 3.0 mi (4.8 km) northwest of Berea.

DRAINAGE AREA.--267 mi^2 (692 km^2).

PERIOD OF RECORD.--October 1923 to September 1935, September 1943 to current year. Monthly discharge only for October 1923, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 649.90 ft (198.089 m) above mean sea level (Cuyahoga County bench mark). Prior to Sept. 30, 1935, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 256 ft^3/s (7.250 m^3/s), 13.03 in/yr (331.0 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,900 ft^3/s (139 m^3/s) Mar. 15, gage height, 5.29 ft (1.612 m); minimum, 9.2 ft^3/s (0.26 m^3/s) Sept. 21, 22.

Period of record: Maximum discharge, 21,400 ft^3/s (606 m^3/s) Jan. 22, 1959, gage height, 14.10 ft (4.298 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of contracted-opening measurement of peak flow; maximum gage height, 18.6 ft (5.67 m) June 29, 1924 (backwater caused by tornado); minimum discharge, 0.2 ft^3/s (0.006 m^3/s) Sept. 2, 1932, Aug. 18, 19, 27, 28, 30, 31, 1933.

Flood in March 1913 reached a stage of 20.9 ft (6.37 m).

REMARKS.--Records good. Some regulation at low flow by small reservoirs on East Branch. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1437: 1924, 1925(M), 1926, 1927(M), 1928-29, 1930-35(M), 1945. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,430	180	267	379	290	456	350	285	536	86	38	56
2	633	1,660	273	267	1,630	1,570	474	229	242	69	36	36
3	339	1,520	278	221	1,490	1,290	438	295	175	62	36	28
4	221	558	391	1,680	668	860	660	280	522	165	33	22
5	167	385	938	748	372	756	1,930	265	585	203	28	21
6	146	311	2,640	310	270	1,000	804	187	1,530	99	21	21
7	150	618	1,820	195	247	501	438	144	748	56	20	39
8	123	3,600	610	158	242	355	468	175	330	38	19	41
9	89	1,940	714	140	242	270	628	592	175	31	21	28
10	74	731	681	110	179	804	1,570	804	122	97	28	22
11	82	522	467	90	165	985	892	1,080	91	179	38	20
12	150	415	435	75	125	1,030	644	456	81	86	81	19
13	176	361	2,070	65	116	474	384	260	233	54	74	19
14	131	4,160	938	60	120	1,240	270	195	134	41	161	20
15	77	2,220	508	60	130	3,980	207	238	72	86	116	20
16	58	1,070	350	60	140	967	183	220	788	81	81	19
17	58	756	317	60	160	1,380	179	224	1,450	52	52	21
18	58	522	317	75	180	1,050	191	191	522	43	41	35
19	89	409	290	90	215	1,090	242	151	233	31	36	31
20	142	833	1,110	110	224	1,130	199	251	172	97	128	24
21	138	816	1,470	80	210	1,050	158	238	140	571	158	11
22	99	610	1,460	120	200	780	131	168	97	238	102	33
23	171	573	1,100	384	190	804	122	1,120	78	99	67	56
24	295	435	681	290	180	1,430	140	1,330	325	74	52	60
25	193	344	487	172	170	1,300	116	474	195	151	39	33
26	135	467	435	154	160	1,300	102	684	105	137	35	21
27	108	641	501	147	150	716	644	408	76	113	30	16
28	102	515	391	233	150	414	3,010	408	195	107	27	31
29	235	367	317	487	------	340	836	543	154	62	27	238
30	367	289	355	260	------	578	414	420	91	39	25	165
31	226	------	461	200	------	515	------	1,310	------	30	47	------
TOTAL	7,462	27,828	23,072	7,480	8,615	30,415	16,824	13,625	10,197	3,277	1,697	1,206
MEAN	241	928	744	241	308	981	561	440	340	106	54.7	40.2
MAX	2,430	4,160	2,640	1,680	1,630	3,980	3,010	1,330	1,530	571	161	238
MIN	58	180	267	60	116	270	102	144	72	30	19	11
CFSM	.90	3.48	2.79	.90	1.15	3.67	2.10	1.65	1.27	.40	.20	.15
IN.	1.04	3.88	3.21	1.04	1.20	4.24	2.34	1.90	1.42	.46	.24	.17

CAL YR 1972 TOTAL 168,546.1 MEAN 461 MAX 4,180 MIN 3.2 CFSM 1.73 IN 23.48
WTR YR 1973 TOTAL 151,698.0 MEAN 416 MAX 4,160 MIN 11 CFSM 1.56 IN 21.14

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	1300	4.71	4,040	12-6	1800	4.71	4,040
11-14	0900	5.23	4,870	3-15	0300	5.29	4,900

04202000 Cuyahoga River at Hiram Rapids, Ohio

LOCATION.--Lat 41°20'26", long 81°10'01", in T.5 N., R.7 W., Portage County, on left bank at downstream side of bridge on Winchell Road at Hiram Rapids, 0.6 mi (1.0 km) downstream from Black Brook.

DRAINAGE AREA.--151 mi^2 (391 km^2).

PERIOD OF RECORD.--August 1927 to December 1935 (published as "near Hiram"), October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,087.46 ft (331.458 m) above mean sea level, unadjusted. Prior to Aug. 26, 1927, nonrecording gage and Aug. 26, 1927, to Dec. 31, 1935, water-stage recorder, at site 2.8 mi (4.5 km) downstream at different datum. Oct. 20, 1944, to Oct. 22, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--37 years, 197 ft^3/s (5.579 m^3/s), 17.72 in/yr (450.1 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,280 ft^3/s (36.2 m^3/s) June 6, gage heigt, 4.67 ft (1.423 m); minimum, 18 ft^3/s (0.51 m^3/s) Sept. 14, 17.

Period of record: Maximum discharge, 3,670 ft^3/s (104 m^3/s) Jan. 23, 1959, gage height, 8.11 ft (2.472 m), from rating curve extended above 2,600 ft^3/s (73.6 m^3/s); minimum, 5.1 ft^3/s (0.14 m^3/s) Sept. 2, 1933.

REMARKS.--Records good. Flow regulated by East Branch Reservoir, usable capacity, 4,140 acre-ft (5.10 hm^3), 14.6 mi (23.5 km) upstream since 1939 and by LaDue Reservoir, usable capacity, 18,110 acre-ft (22.3 m^3), 9.8 mi (15.8 km) upstream since 1961. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1054: 1945. WSP 1437: 1931. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	367	96	224	256	180	123	510	510	493	112	35	34
2	438	118	213	241	221	159	563	454	613	108	33	41
3	510	150	205	229	291	230	545	378	604	99	34	40
4	498	176	197	275	395	326	532	315	650	93	31	36
5	430	205	195	305	487	484	618	269	1,000	85	27	32
6	359	229	250	337	471	650	650	232	1,250	74	26	34
7	298	241	344	344	425	704	682	205	1,160	65	24	33
8	244	288	471	340	371	671	627	190	1,010	56	23	29
9	202	333	536	319	322	563	536	205	828	49	25	23
10	165	406	498	250	280	459	489	250	657	44	30	21
11	134	471	430	200	253	387	476	322	496	40	30	21
12	114	459	370	150	218	372	480	363	385	38	30	23
13	97	410	382	130	180	385	459	394	325	40	25	20
14	84	489	374	121	149	423	410	382	265	48	24	19
15	76	567	390	113	140	693	355	340	225	45	47	19
16	66	732	351	109	150	875	308	291	207	37	83	19
17	84	756	312	112	186	969	281	280	213	31	87	19
18	69	646	290	132	170	913	262	241	214	27	79	23
19	56	528	278	161	146	804	235	216	213	24	66	35
20	51	434	275	185	138	709	213	218	204	24	56	52
21	47	370	288	190	133	627	200	253	190	40	90	49
22	47	326	337	199	134	549	190	326	170	54	105	49
23	57	295	390	226	130	489	185	442	156	55	95	67
24	85	272	454	235	120	459	173	523	142	48	74	67
25	90	256	498	240	120	463	154	563	134	45	53	61
26	91	241	489	231	120	536	134	576	125	48	44	56
27	96	241	446	219	120	604	123	523	114	76	41	55
28	90	244	390	212	120	618	190	446	108	84	39	55
29	85	238	340	211	------	585	291	398	108	77	32	80
30	90	232	295	209	------	554	442	367	111	54	27	115
31	94	------	269	193	------	532	------	410	------	42	30	------
TOTAL	5,214	10,449	10,781	6,674	6,170	16,915	11,313	10,882	12,370	1,762	1,445	1,227
MEAN	168	348	348	215	220	546	377	351	412	56.8	46.6	40.9
MAX	510	756	536	344	487	969	682	576	1,250	112	105	115
MIN	47	96	195	109	120	123	123	190	108	24	23	19
MEAN+	162	349	348	217	221	352	376	353	401	56.6	41.0	37.7
CFSM+	1.07	2.31	2.30	1.44	1.46	3.66	2.49	2.34	2.66	.37	.27	.25
IN.+	1.24	2.58	2.66	1.66	1.53	4.21	2.78	2.69	2.97	.43	.31	.28

CAL YR 1972 TOTAL 87,988 MEAN 240 MAX 1,770 MIN 24 MEAN+ 240 CFSM+ 1.59 IN.+ 21.67
WTR YR 1973 TOTAL 95,202 MEAN 261 MAX 1,250 MIN 19 MEAN+ 260 CFSM+ 1.72 IN.+ 23.33

+ Adjusted for change in contents of East Branch and LaDue Reservoirs.

04204000 Little Cuyahoga River at Mogadore, Ohio

LOCATION.--Lat 41°03'47", long 81°23'38", in T.1 N., R.10 W., Summit County, on left bank at upstream side of bridge on State Highway 532, 500 ft (152 m) downstream from Mogadore Reservoir, 0.8 mi (1.3 km) upstream from Wingfood Lake Outlet, and 0.8 mi (1.3 km) north of Mogadore.

DRAINAGE AREA.--17.3 mi^2 (44.8 km^2), includes unnamed tributary 0.2 mi (0.3 km) downstream.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,058.74 ft (322.704 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--27 years, 13.3 ft^3/s (0.377 m^3/s).

EXTREMES.--Current year: Maximum discharge, 128 ft^3/s (3.62 m^3/s) Mar. 15, gage height, 4.00 ft (1.219 m); minimum, 0.16 ft^3/s (0.005 m^3/s) Sept. 27.

Period of record: Maximum discharge, 167 ft^3/s (4.73 m^3/s) Mar. 10, 1964, gage height, 3.75 ft (1.143 m); maximum gage height, 4.30 ft (1.311 m) Jan. 21, 1959 (backwater from aquatic growth); minimum discharge, 0.10 ft^3/s (0.003 m^3/s) Oct. 29, 30, 31, 1967.

REMARKS.--Records fair. Flow regulated by Mogadore Reservoir, usable capacity, 6,540 acre-ft (8.06 hm^3). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1912: Drainage area. WRD Ohio 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	8.3	19	24	23	24	41	27	22	9.4	5.8	11
2	26	17	20	22	44	26	39	26	21	8.3	12	2.8
3	23	15	19	23	38	25	36	25	23	8.3	45	6.4
4	21	13	20	42	35	24	47	23	28	11	47	7.2
5	21	12	21	30	32	31	56	22	28	13	44	6.8
6	21	11	38	29	32	32	46	21	38	9.4	40	9.4
7	21	14	28	26	33	31	41	20	31	9.4	38	7.9
8	19	29	28	24	32	29	42	26	25	7.5	36	7.5
9	17	27	30	23	31	27	41	32	22	9.4	35	7.5
10	15	19	29	21	29	29	49	32	20	14	34	7.9
11	14	20	25	20	26	29	50	36	19	13	32	8.3
12	19	18	32	19	24	28	44	31	18	11	31	8.3
13	18	18	44	18	23	25	39	29	18	9.8	26	8.3
14	16	61	33	17	25	40	35	26	16	7.2	14	14
15	14	38	34	17	35	83	32	26	14	11	13	13
16	14	33	34	17	30	57	30	23	17	8.7	12	9.4
17	13	29	32	17	27	63	29	23	19	8.7	12	8.7
18	12	26	30	17	25	64	31	22	19	8.3	11	9.8
19	12	26	29	19	24	64	29	21	18	7.5	11	7.5
20	12	30	40	18	24	59	27	23	16	9.1	11	1.7
21	11	26	40	16	24	54	26	21	15	42	11	.72
22	11	25	40	22	24	48	24	21	14	13	9.4	.37
23	14	24	36	23	23	47	24	30	13	12	9.1	2.4
24	13	22	33	20	23	48	22	29	15	12	9.4	.37
25	12	21	31	19	23	49	21	25	14	14	9.4	.22
26	8.7	22	32	19	22	54	20	28	13	13	9.1	.20
27	7.5	22	31	20	21	44	27	26	11	15	7.9	.16
28	7.5	21	27	26	22	40	37	27	12	11	7.5	.24
29	9.4	20	25	25	------	44	29	26	13	9.1	7.9	1.7
30	8.7	19	25	22	------	51	29	25	11	8.7	8.3	1.9
31	7.9	------	26	21	------	44	------	27	------	6.1	11	------
TOTAL	470.7	686.3	931	676	774	1,313	1,043	799	563	349.9	609.8	171.68
MEAN	15.2	22.9	30.0	21.8	27.6	42.4	34.8	25.8	18.8	11.3	19.7	5.72
MAX	32	61	44	42	44	83	56	36	38	42	47	14
MIN	7.5	8.3	19	16	21	24	20	20	11	6.1	5.8	.16

CAL YR 1972 TOTAL 7,734.20 MEAN 21.1 MAX 105 MIN 1.0
WTR YR 1973 TOTAL 8,387.38 MEAN 23.0 MAX 83 MIN .16

04204500 Little Cuyahoga River at Massillon Road, Akron, Ohio

LOCATION.--Lat 41°03'37", long 81°27'48", in T.1 N., R.10 W., Summit County, on left bank 50 ft (15 m) downstream from bridge on Massillon Road in Akron and 250 ft (76 m) upstream from Springfield Lake Outlet.

DRAINAGE AREA.--31.6 mi² (81.8 km²).

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,005.20 ft (306.385 m) above mean sea level (city of Akron bench mark).

AVERAGE DISCHARGE.--27 years, 27.2 ft³/s (0.770 m³/s).

EXTREMES.--Current year: Maximum discharge, 421 ft³/s (11.9 m³/s) July 20, gage height, 2.51 ft (0.765 m); minimum, 7.8 ft³/s (0.22 m³/s) July 12, gage height, 0.46 ft (0.140 m).

Period of record: Maximum discharge, 891 ft³/s (25.2 m³/s) Jan. 21, 1959, gage height, 3.99 ft (1.216 m); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 3, 19, 1963; minimum gage height, 0.16 ft (0.049 m) Sept. 24, 1964, July 16, 1965.

REMARKS.--Records good. Flow regulated by Mogadore Reservoir 4.5 mi (7.2 km) upstream, usable capacity, 6,540 acre-ft (8.06 hm³), and Wingfoot Lake 7.2 mi (11.6 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	19	34	47	40	42	63	52	38	18	21	33
2	46	39	34	42	87	48	63	51	33	16	27	25
3	39	33	34	53	71	45	58	50	40	16	52	25
4	34	24	37	87	55	44	85	46	48	29	59	27
5	32	22	41	56	50	60	97	45	45	23	56	30
6	32	21	83	48	51	56	73	42	68	17	52	31
7	32	34	56	44	52	51	65	40	50	16	49	15
8	28	58	49	42	52	47	69	51	41	14	48	16
9	27	42	52	39	48	43	75	66	32	13	48	16
10	24	32	50	35	43	48	93	66	30	27	48	16
11	23	34	43	34	40	48	83	78	28	18	45	16
12	37	30	60	32	38	48	71	56	29	14	47	16
13	28	36	85	31	36	42	63	52	27	13	44	17
14	25	133	58	31	45	95	51	51	24	17	34	23
15	22	69	55	31	62	144	48	51	22	22	27	23
16	22	52	55	31	49	81	44	47	36	14	21	18
17	21	47	50	32	42	89	45	47	35	13	19	17
18	21	41	49	33	40	81	51	43	36	13	23	19
19	21	43	51	36	40	89	47	41	29	12	19	21
20	20	51	75	33	40	89	43	51	26	63	38	17
21	19	43	75	30	40	80	45	45	25	122	26	15
22	19	41	71	43	39	71	44	44	23	31	19	30
23	27	40	63	43	39	69	45	65	21	24	17	24
24	24	36	58	36	38	76	43	59	32	21	16	17
25	22	36	53	33	37	78	40	52	24	38	16	16
26	21	40	56	32	37	85	38	51	21	30	15	15
27	19	40	55	35	36	68	69	43	19	30	15	14
28	17	39	50	48	37	62	89	51	23	21	29	14
29	21	36	48	47	------	68	59	48	22	19	30	19
30	19	34	47	38	------	83	55	44	18	18	31	17
31	18	------	49	35	------	68	------	47	------	16	34	------
TOTAL	829	1,245	1,676	1,237	1,284	2,098	1,814	1,575	945	758	1,025	602
MEAN	26.7	41.5	54.1	39.9	45.9	67.7	60.5	50.8	31.5	24.5	33.1	20.1
MAX	69	133	85	87	87	144	97	78	68	122	59	33
MIN	17	19	34	30	36	42	38	40	18	12	15	14

CAL YR 1972 TOTAL 13,943.6 MEAN 38.1 MAX 179 MIN 7.2
WTR YR 1973 TOTAL 15,088.0 MEAN 41.3 MAX 144 MIN 12

04205000 Springfield Lake Outlet at Akron, Ohio

LOCATION.--Lat 41°03'21", long 81°27'52", in T. 1 N., R.10 W., Summit County, on right bank 3.0 mi (4.8 km) downstream from Springfield Lake in Akron, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--9.72 mi² (25.2 km²).

PERIOD OF RECORD.--May 1946 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,015.34 ft (309.476 m) above mean sea level (city of Akron bench mark).

AVERAGE DISCHARGE.--27 years, 5.60 ft³/s (0.159 m³/s).

EXTREMES.--Current year: Maximum discharge, 104 ft³/s (2.95 m³/s) Mar. 14, July 21, gage height, 2.28 ft (0.695 m); maximum gage height, 2.29 ft (0.698 m) Jan. 13 (backwater from ice); minimum discharge, 1.5 ft³/s (0.042 m³/s) Sept. 14, 21, 22, gage height, 1.26 ft (0.384 m).

Period of record: Maximum discharge, 519 ft³/s (14.7 m³/s) Jan. 21, 1959, gage height, 3.42 ft (1.042 m), from rating curve extended above 95 ft³/s (2.69 m³/s); maximum gage height, 3.57 ft (1.088 m), probably occurred Feb. 5, 1971 (backwater from ice); no flow at times in 1953-54, 1961-67, 1970.

REMARKS.--Records good. Flow regulated by Springfield Lake. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	3.9	5.4	9.8	8.1	8.5	14	10	7.3	3.4	3.9	2.1
2	6.9	11	5.4	9.0	27	9.8	14	9.8	6.9	3.0	8.5	2.0
3	4.9	7.7	5.4	12	17	9.4	12	9.8	6.9	3.2	2.8	2.0
4	4.1	5.6	6.6	25	11	9.4	15	9.0	8.1	9.1	2.4	1.8
5	3.6	4.6	7.3	12	9.0	15	29	8.5	8.0	5.4	2.1	1.8
6	4.1	3.9	28	9.0	8.1	13	17	7.7	19	3.2	2.1	2.1
7	3.9	9.0	17	7.7	11	9.8	13	6.9	9.8	3.0	2.0	1.8
8	3.6	19	15	7.0	11	9.4	13	12	7.3	2.8	2.0	1.8
9	3.0	11	16	6.5	8.5	9.4	12	14	6.2	2.6	2.4	1.8
10	2.8	6.2	15	6.0	7.3	9.4	24	17	5.9	6.8	2.8	1.8
11	2.6	6.2	12	6.0	6.2	11	20	29	5.6	2.8	2.6	1.8
12	6.3	5.1	17	6.0	6.2	10	13	14	7.3	2.6	3.9	1.8
13	3.6	6.8	25	6.0	5.9	9.0	12	11	6.6	2.4	2.3	1.8
14	3.2	54	14	6.0	9.4	35	10	10	5.1	2.4	3.9	2.6
15	2.8	24	12	6.0	14	43	9.4	10	4.4	7.0	4.1	2.3
16	2.8	13	10	6.0	8.1	19	9.0	8.5	11	2.8	2.3	1.8
17	2.6	9.8	9.0	6.0	7.5	18	9.0	9.4	8.1	2.4	2.6	1.7
18	2.8	8.5	9.0	6.9	7.5	18	13	7.3	15	2.4	3.9	2.6
19	2.8	8.5	9.4	7.3	7.5	22	11	7.3	6.9	2.1	2.8	1.8
20	2.6	12	19	7.7	7.3	22	11	10	5.1	6.2	17	1.7
21	2.6	9.4	19	6.6	7.3	19	10	8.5	4.4	34	11	1.5
22	2.6	8.5	17	7.5	6.9	17	10	9.0	3.9	5.6	5.1	4.6
23	5.5	7.7	15	11	7.3	16	9.8	16	3.6	3.6	3.0	5.1
24	4.1	6.9	13	6.5	6.9	18	9.0	14	6.7	3.0	2.8	2.1
25	3.4	6.6	12	6.9	6.9	18	8.5	11	3.9	7.8	2.4	2.0
26	3.2	6.9	13	6.9	6.9	22	8.5	13	3.2	5.1	2.1	1.8
27	3.0	6.9	12	8.1	6.9	15	22	9.0	3.0	4.1	2.1	1.7
28	2.8	6.9	11	12	6.9	13	25	11	4.6	3.0	2.1	1.8
29	4.1	5.9	9.8	9.8	------	16	13	11	3.9	2.6	1.8	3.4
30	3.2	5.4	9.4	6.9	------	22	12	9.0	3.2	2.4	2.1	2.1
31	3.2	------	9.8	6.9	------	17	------	9.4	------	2.1	3.6	------
TOTAL	120.7	300.9	398.5	259.0	253.6	503.1	408.2	342.1	200.9	148.9	114.5	65.0
MEAN	3.89	10.0	12.9	8.35	9.06	16.2	13.6	11.0	6.70	4.80	3.69	2.17
MAX	14	54	28	25	27	43	29	29	19	34	17	5.1
MIN	2.6	3.9	5.4	6.0	5.9	8.5	8.5	6.9	3.0	2.1	1.8	1.5

CAL YR 1972 TOTAL 3,040.6 MEAN 8.31 MAX 54 MIN 1.2
WTR YR 1973 TOTAL 3,115.4 MEAN 8.54 MAX 54 MIN 1.5

04206000 Cuyahoga River at Old Portage, Ohio

LOCATION.--Lat 41°08'08", long 81°32'50", Summit County, on right bank 230 ft (70 m) upstream from North Portage Path bridge at Old Portage, 1.2 mi (1.9 km) downstream from Little Cuyahoga River, and 4 mi (6 km) northwest of Akron City Hall.

DRAINAGE AREA.--404 mi² (1,046 km²).

PERIOD OF RECORD.--September 1921 to December 1935, March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 740.11 ft (225.586 m) above mean sea level, unadjusted. Prior to Dec. 21, 1923, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 407 ft³/s (11.53 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,330 ft³/s (94.3 m³/s) Mar. 14, gage height, 8.82 ft (2.688 m); minimum, 46 ft³/s (1.30 m³/s) Sept. 10.
Period of record: Maximum discharge, 6,500 ft³/s (184 m³/s) Jan. 21, 1959, gage height, 11.54 ft (3.517 m), from rating curve extended above 3,900 ft³/s (110 m³/s) on basis on contracted-opening estimate of peak flow at site with drainage area of 408 mi² (1,264 km²) adjusted to gaging station by drainage-area relation; minimum, 14 ft³/s (0.40 m³/s) Aug. 27, 1944.

REMARKS.--Records good. Natural flow of stream affected by diversions, storage reservoirs and power plants. At Lake Rockwell, 17.7 mi (28.5 km) upstream from gage, an average of 78 ft³/s (2.21 m³/s) was diverted for municipal supply of city of Akron. Sewage from city enters river 2.9 mi (4.7 km) downstream from station. Some diversion from the Tuscarawas drainage into this basin at Portage Lakes (see REMARKS for station 03116000). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1307: 1924(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	230	465	627	443	361	1,080	616	751	271	134	99
2	988	350	458	550	742	471	1,150	764	701	265	164	74
3	780	386	428	632	1,020	545	1,190	764	782	225	157	67
4	780	371	458	912	935	703	1,270	655	938	312	171	64
5	750	374	455	652	893	405	1,530	576	999	264	164	82
6	701	401	855	704	947	1,040	1,410	507	1,250	220	151	93
7	606	526	868	641	970	1,140	1,230	450	1,500	145	140	64
8	506	757	792	596	932	1,140	1,250	523	1,420	165	134	60
9	401	780	872	568	623	1,060	1,200	636	1,250	139	129	57
10	353	683	956	494	682	1,030	1,270	746	1,080	291	141	55
11	350	711	892	410	591	944	1,210	864	845	159	128	51
12	437	776	924	365	500	868	1,070	768	710	142	176	63
13	377	742	1,100	306	436	724	968	736	628	141	130	61
14	356	1,500	1,020	290	470	1,180	872	740	503	160	173	67
15	347	1,500	880	295	591	1,980	756	755	418	250	170	67
16	332	1,200	828	273	500	1,820	659	675	557	155	122	61
17	177	1,150	666	268	411	1,690	548	628	590	130	105	60
18	171	1,210	627	298	398	1,860	576	539	511	94	117	79
19	189	1,140	669	354	422	1,770	544	516	455	100	97	64
20	168	1,060	852	395	383	1,590	497	596	445	436	184	63
21	166	880	952	347	372	1,460	503	570	432	551	161	61
22	180	760	988	456	355	1,300	443	562	409	261	113	155
23	238	662	996	522	359	1,190	449	765	345	220	97	183
24	220	606	964	533	357	1,170	434	930	381	201	111	104
25	211	561	964	476	334	1,140	432	942	317	260	103	96
26	206	571	996	458	350	1,240	406	955	274	232	88	95
27	192	568	948	476	319	1,160	578	916	254	243	86	84
28	187	533	844	524	321	1,110	640	913	274	179	93	92
29	240	494	739	549	------	1,180	547	837	263	155	90	210
30	228	458	676	494	------	1,290	510	714	251	154	82	164
31	211	------	655	449	------	1,200	------	848	------	141	137	------
TOTAL	12,398	21,990	24,808	15,168	15,906	36,365	25,322	22,006	19,593	6,734	4,048	2,625
MEAN	400	733	800	489	568	1,173	844	710	653	217	131	87.5
MAX	1,350	1,500	1,100	912	1,020	1,980	1,530	955	1,500	551	184	210
MIN	166	230	428	268	319	361	406	450	251	94	82	55

CAL YR 1972 TOTAL 197,981 MEAN 541 MAX 2,270 MIN 61
WTR YR 1973 TOTAL 206,963 MEAN 567 MAX 1,980 MIN 55

04207200 Tinkers Creek at Bedford, Ohio

LOCATION.--Lat 41°23'04", long 81°31'39", in T.6 N., R.11 W., Cuyahoga County, on left bank at downstream side of bridge on State Highway 14 in Bedford, 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--83.9 mi^2 (217 km^2).

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.18 ft (267.060 m) above mean sea level.

AVERAGE DISCHARGE.--10 years (1963-73), 113 ft^3/s (3.200 m^3/s), 18.29 in/yr (464.6 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Aug. 20, gage height, 6.82 ft (2.079 m); minimum, 11 ft^3/s (0.31 m^3/s) Aug. 8.

Period of record: Maximum discharge, 7,220 ft^3/s (204 m^3/s) July 20, 1969, gage height, 10.10 ft (3.078 m), from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on the basis of contracted-opening measurement of peak flow; minimum, 5.2 ft^3/s (0.15 m^3/s) Aug. 19, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	53	93	98	109	213	188	125	240	32	21	40
2	602	351	96	81	439	382	185	100	142	31	20	24
3	340	200	104	118	460	383	163	104	333	30	19	22
4	127	180	148	471	348	352	327	115	540	43	16	22
5	84	129	200	324	185	448	450	84	320	31	14	18
6	76	88	701	180	147	410	392	67	257	25	15	25
7	67	280	374	65	142	317	200	55	177	22	14	25
8	58	774	352	55	137	185	161	106	113	19	14	21
9	46	428	257	50	117	140	206	237	73	20	14	17
10	38	320	200	48	81	233	362	365	53	30	13	19
11	36	215	147	46	66	425	299	344	45	25	14	19
12	52	129	168	44	53	303	200	282	50	23	34	19
13	45	141	360	42	50	219	135	156	48	21	23	19
14	41	1.040	303	40	55	657	100	115	42	26	358	23
15	37	590	215	38	133	816	79	149	31	38	127	19
16	36	542	127	37	102	900	72	98	518	26	36	18
17	33	285	111	43	80	596	72	94	215	21	22	18
18	31	140	100	54	60	383	84	78	153	19	49	28
19	32	115	119	73	64	365	81	67	102	19	21	21
20	30	172	296	72	62	369	72	267	69	106	506	19
21	27	158	369	48	64	324	60	200	54	186	182	18
22	30	149	414	84	66	264	53	173	45	62	58	54
23	64	127	344	125	65	293	50	607	48	30	32	38
24	54	106	236	111	75	348	58	352	128	60	25	25
25	49	93	153	72	64	392	48	278	59	64	22	21
26	40	188	142	60	64	383	42	177	43	36	22	19
27	34	194	133	67	62	282	400	123	37	72	24	18
28	36	149	117	125	60	169	818	193	36	52	19	71
29	70	119	98	142	------	194	475	125	36	36	19	371
30	55	93	115	91	------	336	261	220	35	24	18	131
31	48	------	115	80	------	275	------	380	------	21	36	------
TOTAL	2.788	7.548	6.707	2.984	3.410	11.356	6.093	5.836	4.042	1.250	1.807	1.202
MEAN	89.9	252	216	96.3	122	366	203	188	135	40.3	58.3	40.1
MAX	602	1.040	701	471	460	900	818	607	540	186	506	371
MIN	27	53	93	37	50	140	42	55	31	19	13	17
CFSM	1.07	3.00	2.57	1.15	1.45	4.36	2.42	2.24	1.61	.48	.69	.48
IN.	1.24	3.35	2.97	1.32	1.51	5.04	2.70	2.59	1.79	.55	.80	.53

CAL YR 1972 TOTAL 58.467 MEAN 160 MAX 1.200 MIN 14 CFSM 1.91 IN 25.92
WTR YR 1973 TOTAL 55.023 MEAN 151 MAX 1.040 MIN 13 CFSM 1.80 IN 24.40

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0500	6.38	1,870	6-16	0830	6.02	1,500
12-6	1000	6.11	1,590	8-14	2000	6.13	1,610
3-14	2000	6.35	1,840	8-20	1745	6.82	2,380
6-3	2230	6.37	1,860				

04207500 Ohio Canal at Independence, Ohio

LOCATION.--Lat 41°23'25", long 81°37'30", in T.6 N., R.12 W., Cuyahoga County, on right bank at upstream side of dam, 0.3 mi (0.5 km) upstream from Rockside Road and 0.8 mi (1.3 km) northeast of Independence.

PERIOD OF RECORD.--September 1921 to May 1923, August 1927 to December 1935, October 1940 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 605.31 ft (184.498 m) above mean sea level. Prior to Dec. 9, 1946, nonrecording gage, or water-stage recorder at site 0.4 mi (0.6 km) downstream at various datums. Dec. 10, 1946, to Nov. 3, 1950, nonrecording gage at present site and datum.

EXTREMES.--Period of record: Maximum daily discharge, 277 ft³/s (7.84 m³/s) Jan. 22, 1959; no flow June 4, 1947, July 2-7, 1950, July 16 to Aug. 19, 1959.

REMARKS.--Records good. Water is diverted from Cuyahoga River into canal at headgates at Brecksville, 6 mi (10 km) upstream. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	75	70	64	65	74	92	78	69	67	57	57
2	92	83	71	62	81	79	95	78	67	67	57	56
3	85	72	71	62	76	87	91	75	68	66	57	55
4	78	79	72	81	70	86	91	73	80	66	57	55
5	55	79	77	67	68	86	83	72	73	68	57	55
6	70	78	79	64	68	67	78	70	74	67	56	56
7	70	82	74	62	69	68	75	70	72	65	56	56
8	68	82	69	61	68	79	76	72	71	65	56	55
9	66	81	71	60	67	78	85	78	69	64	56	55
10	64	79	69	59	65	81	100	83	68	67	56	54
11	64	78	67	58	64	85	92	80	69	67	55	55
12	66	77	69	58	63	79	90	75	73	64	57	55
13	67	75	80	57	62	75	87	73	73	64	55	55
14	66	79	71	56	63	81	86	71	70	64	58	55
15	65	70	69	57	70	61	85	73	68	67	61	55
16	65	78	67	57	66	83	85	71	85	64	55	55
17	65	75	67	58	64	85	83	70	87	63	55	55
18	62	74	64	59	62	79	85	68	75	63	55	55
19	63	74	65	61	63	80	85	67	72	62	55	55
20	66	77	59	60	63	78	83	72	71	64	56	55
21	69	76	76	58	64	75	82	70	69	74	62	55
22	70	75	76	62	63	71	81	69	70	65	58	55
23	73	74	71	64	63	82	80	82	69	63	57	59
24	73	72	68	62	63	100	79	78	71	63	56	56
25	72	71	67	60	62	98	79	73	69	63	57	56
26	72	76	68	60	62	98	78	73	67	62	56	55
27	72	76	68	60	62	95	88	71	67	63	56	55
28	72	73	66	63	63	92	76	78	67	59	56	55
29	75	71	65	67	------	91	85	71	67	58	56	65
30	75	70	65	63	------	95	80	70	67	57	56	61
31	74	------	64	62	------	92	------	78	------	57	57	------
TOTAL	2,177	2,281	2,155	1,904	1,839	2,560	2,535	2,282	2,137	1,988	1,756	1,676
MEAN	70.2	76.0	69.5	61.4	65.7	82.6	84.5	73.6	71.2	64.1	56.6	55.9
MAX	92	83	80	81	81	100	100	83	87	74	62	65
MIN	55	70	59	56	62	61	75	67	67	57	55	54

CAL YR 1972 TOTAL 26,050 MEAN 71.2 MAX 97 MIN 48
WTR YR 1973 TOTAL 25,290 MEAN 69.3 MAX 100 MIN 54

04208000 Cuyahoga River at Independence, Ohio

LOCATION.--Lat 41°23'43", long 81°37'48", in T.6 N., R.12 W., Cuyahoga County, on left bank 280 ft (73 m) downstream from bridge on Old Rockside Road, 0.8 mi (1.3 km) northeast of Independence, and 3.0 mi (4.8 km) downstream from Tinkers Creek.

DRAINAGE AREA.--707 mi² (1,831 km²).

PERIOD OF RECORD.--September 1903 to December 1905 (fragmentary), January to July 1906 (gage heights and discharge measurements only), September 1921 to May 1923, September 1927 to December 1935, March 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 583.57 ft (177.872 m) above mean sea level. Sept. 21, 1903, to July 21, 1906, nonrecording gage at bridge 240 ft (73 m) upstream at present datum. Sept. 28, 1921, to May 30, 1923, nonrecording gage at bridge 240 ft (73 m) upstream at datum 2.42 ft (0.738 m) higher. Sept. 5, to Oct. 8, 1927, nonrecording gage, and Oct. 9, 1927, to Dec. 31, 1935, Mar. 5, 1940, to June 19, 1969, water-stage recorder, at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--42 years (1921-22, 1927-35, 1940-73), 761 ft³/s (21.55 m³/s), not including flow in Ohio Canal.

EXTREMES.--Current year: Maximum discharge, 7,180 ft³/s (203 m³/s) Mar. 15, gage height, 13.29 ft (4.051 m); minimum, 139 ft³/s (3.94 m³/s) July 19.

Period of record: Maximum discharge, 24,800 ft³/s (702 m³/s) Jan. 22, 1959, gage height, 22.41 ft (6.831 m), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 14 ft³/s (0.40 m³/s) Nov. 30, 1930; minimum daily, 21 ft³/s (0.59 m³/s) Aug. 28, 1933; minimum combined daily daicharge of river and canal, 55 ft³/s (1.56 m³/s) Aug. 28, 1933.

REMARKS.--Records good. Natural flow of stream affected by diversions, storage reservoirs and power plants. Some diversion from the Tuscarawas drainage into this basin at Portage Lakes (see REMARKS for station 03116000). Water diverted into Ohio Canal at Brecksville, 6 mi (10 km) upstream from station, bypasses station. These records do not include flow in canal except above about 15,000 ft³/s (425 m³/s), when channels merge; record of diversion published as Ohio Canal at Independence (see preceding page). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1307: 1922-23(M), 1928-30(M), 1933(M), 1940(M), 1947(M), 1950(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,560	388	872	1,050	928	1,120	1,860	1,090	1,470	413	257	303
2	2,350	1,580	892	934	2,520	1,830	2,010	1,150	1,190	408	278	251
3	1,590	1,140	852	887	2,640	1,810	1,870	1,280	1,300	388	259	198
4	1,200	835	936	2,850	1,970	1,670	2,260	1,150	2,810	394	274	189
5	1,120	745	1,280	1,800	1,560	2,140	3,420	1,020	1,940	538	269	182
6	1,060	655	3,310	1,360	1,460	2,300	2,590	868	2,190	378	248	279
7	951	1,160	2,190	1,080	1,560	1,970	2,010	775	2,020	323	257	251
8	798	3,770	1,670	961	1,500	1,760	1,990	813	1,880	281	245	195
9	651	2,180	1,700	913	1,350	1,580	1,920	1,480	1,640	259	241	172
10	527	1,590	1,610	802	1,140	2,020	3,010	1,870	1,400	458	254	157
11	512	1,310	1,430	700	994	2,270	2,280	2,020	1,200	388	243	192
12	654	1,210	1,490	626	851	1,990	1,880	1,510	1,010	272	381	209
13	618	1,160	2,770	566	776	1,490	1,580	1,270	1,090	257	293	192
14	546	5,700	1,960	527	785	2,470	1,380	1,130	775	262	724	195
15	500	3,250	1,580	532	1,400	6,500	1,230	1,320	640	510	830	192
16	490	2,320	1,390	532	1,090	3,910	1,100	1,110	2,350	312	338	169
17	416	1,750	1,160	536	857	3,730	1,030	1,090	2,080	255	268	151
18	306	1,560	1,050	648	756	3,160	1,040	920	1,150	226	310	223
19	332	1,500	1,070	761	790	3,200	1,010	821	465	176	279	202
20	310	1,750	2,000	783	777	3,010	918	1,270	750	363	810	179
21	280	1,530	2,250	644	754	2,770	868	1,190	680	1,670	915	166
22	284	1,380	2,460	859	752	2,320	781	1,020	640	602	378	202
23	453	1,280	2,040	1,080	737	2,250	764	2,420	575	411	272	534
24	452	1,120	1,710	1,000	736	2,590	770	2,190	840	397	258	244
25	386	1,020	1,510	870	698	2,500	732	1,690	605	552	261	209
26	351	1,330	1,500	796	684	2,750	688	1,600	489	407	233	182
27	334	1,410	1,520	812	679	2,120	1,490	1,380	440	606	216	172
28	324	1,220	1,350	998	702	1,790	4,370	1,750	422	411	230	240
29	490	1,020	1,180	1,260	-------	1,940	1,870	1,460	471	313	240	1,120
30	463	897	1,140	981	-------	2,530	1,310	1,290	404	264	223	690
31	389	-------	1,110	863	-------	2,140	-------	2,190	-------	266	350	-------
TOTAL	22,697	47,760	48,982	29,011	31,446	75,630	50,031	42,137	35,316	12,764	10,634	7,840
MEAN	732	1,592	1,580	936	1,123	2,440	1,668	1,359	1,177	412	343	261
MAX	3,560	5,700	3,310	2,850	2,640	6,500	4,370	2,420	2,810	1,670	915	1,120
MIN	280	388	852	527	679	1,120	688	775	404	176	216	151

CAL YR 1972 TOTAL 418,211 MEAN 1,143 MAX 6,090 MIN 76
WTR YR 1973 TOTAL 414,248 MEAN 1,135 MAX 6,500 MIN 151

04208502 Big Creek at Cleveland, Ohio

LOCATION.--Lat 41°27'01", long 81°43'18", Cuyahoga County, on right bank 8 ft (2 m) downstream from footbridge in Brookside Park, 0.2 mi (0.3 km) upstream from bridge on Fulton Road and 2.5 mi (4.0 km) upstream from the mouth.

DRAINAGE AREA.--35.3 mi² (91.4 km²).

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Datum of gage is 620.7 ft (189.19 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Period of record: Maximum discharge, 2,210 ft³/s (62.6 m³/s) July 20 (from high-water mark); minimum, 2.2 ft³/s (0.062 m³/s) Sept. 20.

REMARKS.--Records good. Flow slightly regulated by industry upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	27	25	26	59	102	20	21	34	17	16	18
2	23	258	26	21	169	91	32	34	23	16	14	7.0
3	19	40	27	78	91	54	20	45	126	23	12	5.5
4	16	28	80	129	36	34	239	58	236	90	12	6.5
5	17	24	71	34	27	89	98	27	90	27	11	7.5
6	27	20	335	22	27	35	32	21	150	16	11	7.5
7	28	212	52	16	26	30	23	24	60	14	11	5.5
8	14	325	52	14	36	20	63	80	36	13	11	4.7
9	13	46	51	12	22	41	145	65	22	14	20	4.7
10	12	28	34	11	16	86	105	90	16	42	17	4.7
11	11	24	28	10	14	156	34	49	14	24	24	4.4
12	26	19	85	9.5	13	51	24	34	34	12	41	4.4
13	15	101	158	9.5	12	27	19	24	15	12	12	3.5
14	12	516	46	9.0	54	434	17	38	10	15	169	3.8
15	11	91	32	9.0	70	152	16	46	11	26	69	2.9
16	14	51	28	11	27	65	19	27	494	14	14	2.3
17	9.5	40	26	15	22	116	21	40	130	13	11	2.3
18	16	27	24	22	19	65	31	16	35	16	32	16
19	42	45	50	31	18	98	19	24	30	14	10	2.6
20	16	63	110	15	17	80	14	122	52	266	24	2.9
21	14	51	76	18	31	51	14	27	30	50	18	2.6
22	15	49	71	30	25	36	14	62	21	26	8.5	62
23	51	40	46	25	22	55	14	360	24	18	7.5	18
24	21	30	35	19	19	65	13	74	131	32	7.5	3.5
25	14	31	28	16	18	67	12	34	23	55	7.5	3.5
26	12	61	46	14	17	55	11	160	20	22	7.5	3.5
27	12	48	35	16	17	28	439	30	19	18	7.5	3.5
28	20	34	27	31	17	21	205	60	119	15	8.5	41
29	57	24	27	28	------	27	39	32	28	23	7.5	288
30	22	22	34	22	------	57	25	176	20	16	7.5	19
31	15	------	35	18	------	22	------	174	------	14	101	------
TOTAL	626.5	2,375	1,800	741.0	941	2,310	1,777	2,074	2,053	973	729.5	601.3
MEAN	20.2	79.2	58.1	23.9	33.6	74.5	59.2	66.9	68.4	31.4	23.5	20.0
MAX	57	516	335	129	169	434	439	360	494	266	169	288
MIN	9.5	19	24	9.0	12	20	11	16	10	12	7.5	2.3
CFSM	.57	2.24	1.65	.68	.95	2.11	1.68	1.90	1.94	.89	.67	.57
IN.	.66	2.50	1.90	.78	.99	2.43	1.87	2.19	2.16	1.03	.77	.63

WTR YR 1973 TOTAL 17,001.3 MEAN 46.6 MAX 516 MIN 2.3 CFSM 1.32 IN 17.92

PEAK DISCHARGE (BASE, 1,200 CFS

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0030	8.10	1,350	6-16	0815	8.68	1,520
3-14	1700	7.82	1,270	7-20	Unknown	10.77	2,210
6-3	2230	7.65	1,220	9-29	1230	9.58	1,790
6-5	Unknown	Unknown	about 1,600				

04209000 Chagrin River at Willoughby, Ohio

LOCATION.--Lat 41°37'51", long 81°24'13", in T.9 N., R.10 W., Lake County, on left bank, 150 ft (46 m) downstream from city waterworks dam, 800 ft (244 m) downstream from East Branch, 1.0 mi (1.6 km) southeast of Willoughby, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi² (637 km²).

PERIOD OF RECORD.--July 1925 to November 1935, October 1939 to current year (July 1925 to September 1932 monthly run-off in inches, adjusted for diversion, published in WSP 1307; previously published run-off was unadjusted and should not be used).

GAGE.--Water-stage recorder. Datum of gage is 594.57 ft (181.225 m) (revised) above mean sea level. Prior to Dec. 20, 1939, nonrecording gage at site 150 ft (46 m) upstream at datum 7 ft (2 m) higher.

AVERAGE DISCHARGE.--44 years, 318 ft³/s (9.006 m³/s), 17.56 in/yr (446.0 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 7,520 ft³/s (213 m³/s) June 4, gage height, 10.21 ft (3.112 m); minimum, 42 ft³/s (1.19 m³/s) Sept. 18, 23, 27.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) Mar. 22, 1948, gage height, 17.95 ft (5.471 m) (from high-water mark in well), from rating curve extended above 14,000 ft³/s (396 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 3.0 ft³/s (0.085 m³/s) July 25, 26, 1934.

Flood in March 1913 reached a stage of 10.3 ft (3.14 m), from floodmark, former site and datum, discharge, 24,500 ft³/s (694 m³/s).

REMARKS.--Records good. Water diverted 200 ft (61 m) upstream from station for municipal supply of city of Willoughby. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1084: 1929(M), 1931(M). WSP 1307: 1926-28(M), 1930(M), 1932-35(M), 1942(M). WSP 1912: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,480	154	235	355	255	250	450	380	642	122	77	125
2	475	997	251	255	1,360	1,140	585	273	345	116	79	119
3	260	690	310	195	1,520	1,360	510	345	756	100	77	77
4	187	425	330	1,620	780	1,220	744	395	4,180	97	72	65
5	137	465	804	702	555	1,240	1,870	370	1,190	105	67	65
6	131	282	2,420	305	460	1,250	792	239	1,950	94	62	70
7	144	362	1,220	215	525	666	465	183	888	84	60	62
8	128	2,870	545	190	440	460	415	223	500	79	58	65
9	113	1,310	618	160	320	310	415	648	282	74	62	62
10	100	595	545	150	240	560	1,180	1,090	203	105	58	65
11	94	435	350	140	190	1,140	642	1,220	179	110	62	60
12	107	340	300	130	170	1,040	490	550	158	87	60	56
13	125	300	1,310	120	150	515	335	380	199	77	77	56
14	113	3,520	660	120	150	1,650	239	255	151	72	65	58
15	102	1,410	400	110	380	3,030	207	370	122	87	671	82
16	97	750	282	110	220	970	187	251	768	87	207	50
17	100	485	270	170	200	1,190	207	269	590	72	102	46
18	110	340	250	315	190	942	666	215	291	67	82	54
19	107	278	240	330	180	870	375	179	227	55	108	70
20	100	385	726	273	180	816	260	1,240	168	67	77	60
21	94	400	991	160	211	810	227	870	144	239	151	52
22	113	365	1,300	260	190	580	207	415	122	147	125	48
23	175	385	1,020	380	180	500	195	1,850	116	94	87	105
24	191	310	720	287	170	854	183	1,360	203	79	74	92
25	144	269	520	207	170	907	165	590	168	287	67	58
26	122	600	445	223	170	1,050	154	935	122	570	65	50
27	107	678	425	180	170	654	654	500	110	330	65	46
28	113	515	360	255	170	430	3,170	475	174	169	63	50
29	227	320	300	360	------	550	1,260	395	183	113	60	287
30	227	247	355	240	------	852	630	320	137	94	60	550
31	154	------	430	210	------	648	------	1,490	------	82	60	------
TOTAL	5,877	20,482	18,932	8,727	9,896	28,464	17,879	18,275	15,268	3,970	3,060	2,705
MEAN	190	683	611	282	353	918	596	590	509	128	98.7	90.2
MAX	1,480	3,520	2,420	1,620	1,520	3,030	3,170	1,850	4,180	570	671	550
MIN	94	154	235	110	150	250	154	179	110	65	58	46
MEAN+	193	687	614	285	357	922	600	593	513	132	104	94.8
CFSM+	.78	2.79	2.50	1.16	1.45	3.75	2.44	2.41	2.09	.54	.42	.39
IN.+	.91	3.11	2.88	1.34	1.51	4.32	2.72	2.78	2.33	.62	.49	.43

CAL YR 1972 TOTAL 160,186 MEAN 438 MAX 4,890 MIN 39 MEAN+ 442 CFSM+ 1.80 IN.+ 24.43
WTR YR 1973 TOTAL 153,535 MEAN 421 MAX 4,180 MIN 46 MEAN+ 425 CFSM+ 1.73 IN.+ 23.43

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0630	8.79	5,630	6-4	0130	10.21	7,520
3-14	2300	8.27	5,000				

+ Adjusted for municipal supply diversion to city of Willoughby.

04211500 Mill Creek near Jefferson, Ohio

LOCATION.--Lat 41°45'11", long 80°48'03", in T.11 N., R.3 W., Ashtabula County, on right bank at downstream side of bridge on State Highway 307, 1.9 mi (3.1 km) northwest of Jefferson, and 3.5 mi (5.6 km) downstream from Griggs Creek.

DRAINAGE AREA.--82.0 mi² (212 km²).

PERIOD OF RECORD.--March 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.59 ft (250.725 m) above mean sea level (Ashtabula County bench mark). Prior to June 10, 1942, nonrecording gage at same site and datum. Since Nov. 27, 1962, supplementary water-stage recorder at crest of waterworks dam 0.2 mi (0.3 km) upstream.

AVERAGE DISCHARGE.--31 years, 107 ft³/s (3.030 m³/s), 17.73 in/yr (450.3 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,060 ft³/s (58.3 m³/s) Mar. 15, gage height, 7.79 ft (2.374 m); minimum daily discharge, 0.10 ft³/s (0.003 m³/s) many days.

Period of record: Maximum discharge, 9,810 ft³/s (278 m³/s) Jan. 22, 1959, gage height, 12.50 ft (3.810 m), from rating curve extended above 3,700 ft³/s (105 m³/s) on basis on contracted-opening measurement of peak flow; no flow at times.

REMARKS.--Records good except those below 1 ft³/s (0.028 m³/s) which are poor. Water diverted 0.2 mi (0.3 km) upstream from station for part of municipal supply of city of Jefferson. Mean diversion for 1973 water year, 0.30 ft³/s (0.008 m³/s). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	39	66	207	58	34	115	83	314	1.2	.10	.10
2	248	251	58	133	340	212	205	52	93	1.1	.10	.10
3	96	500	78	70	697	837	167	45	87	1.1	.10	.10
4	44	249	102	478	316	907	205	46	970	1.0	.10	.10
5	22	143	248	421	147	496	1.080	51	502	1.1	.10	.10
6	14	87	602	110	100	616	389	43	370	.94	.10	.10
7	9.4	62	777	70	126	273	147	30	211	.81	.10	.10
8	6.5	254	220	44	140	155	97	25	86	.68	.10	.10
9	4.9	408	164	29	97	98	86	177	43	.68	.10	.10
10	3.7	209	172	19	65	80	117	389	25	.61	.10	.10
11	3.0	132	131	14	40	115	133	442	16	.10	.10	.10
12	3.7	115	84	11	28	283	84	246	11	.10	.10	.10
13	3.1	88	338	9.5	22	159	57	97	81	.10	.10	.10
14	3.0	985	332	8.7	19	257	39	53	112	.10	.10	.10
15	2.2	966	150	8.3	33	1.560	29	40	33	.10	.10	.10
16	2.2	329	66	8.3	44	413	24	35	20	.10	1.4	.10
17	2.2	191	60	11	55	406	20	40	27	.10	9.4	.10
18	2.1	137	60	27	50	454	121	44	26	.10	2.7	.10
19	2.7	104	60	97	41	250	246	34	16	.10	.10	.10
20	2.2	124	76	220	35	279	121	287	13	.10	.10	.10
21	2.4	205	229	118	36	314	69	728	18	.10	50	.10
22	3.6	159	679	90	38	225	45	193	7.3	.10	99	.10
23	9.0	127	746	248	38	166	33	193	4.5	.10	49	.10
24	89	102	451	184	36	279	25	389	4.1	.10	21	.10
25	97	77	307	98	34	377	19	248	3.0	.10	7.5	.10
26	48	164	218	80	32	475	15	117	2.1	.10	3.1	.10
27	33	297	189	70	30	261	61	76	1.8	.10	1.6	.10
28	29	203	133	110	29	126	1.220	54	2.5	.10	.10	.10
29	32	127	88	174	------	177	572	49	2.5	.10	.10	.10
30	68	86	77	90	------	220	179	77	1.7	.10	.10	11
31	58	------	137	70	------	203	------	714	------	.10	.10	------
TOTAL	1.599.9	6.920	7.048	3.327.8	2.726	10.707	5.820	5.097	3.103.5	11.32	246.80	13.90
MEAN	51.6	231	229	107	97.4	345	194	164	103	.37	7.96	.46
MAX	656	985	777	478	697	1.560	1.220	728	970	1.2	99	11
MIN	2.1	39	58	8.3	19	34	15	25	1.7	.10	.10	.10
CFSM	.63	2.82	2.79	1.30	1.19	4.21	2.37	2.00	1.26	.005	.10	.005
IN.	.73	3.14	3.22	1.51	1.24	4.86	2.64	2.31	1.41	.005	.11	.006

CAL YR 1972 TOTAL 52.091.22 MEAN 142 MAX 2.940 MIN .10 CFSM 1.73 IN 23.63
WTR YR 1973 TOTAL 46.671.22 MEAN 128 MAX 1.560 MIN .10 CFSM 1.56 IN 21.17

PEAK DISCHARGE (BASE, 1,500 CFS).--Mar. 15 (1100) 2,060 cfs (7.79 ft).

04212000 Grand River near Madison, Ohio

LOCATION.--Lat 41°44'26", long 81°02'48", Lake County, on downstream end of center pier of abandoned Highway bridge, 800 ft (244 m) upstream from State Highway 528, 0.8 mi (1.3 km) upstream from Griswold Creek and 2.1 mi (3.4 km) south of Madison.

DRAINAGE AREA.--581 mi² (1,505 km²).

PERIOD OF RECORD.--July 1922 to December 1935, February 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.51 ft (205.286 m) (revised) above mean sea level. Prior to Jan. 20, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 659 ft³/s (18.66 m³/s), 15.41 in/yr (391.4 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,280 ft³/s (178 m³/s) Mar. 15, gage height, 8.05 ft (2.454 m); minimum, 8.2 ft³/s (0.23 m³/s) Sept. 22.

Period of record: Maximum discharge, 21,100 ft³/s (598 m³/s) Jan. 22, 1959, gage height, 14.73 ft (4.490 m), from rating curve extended above 12,200 ft³/s (346 m³/s) on basis of estimates of peak flow over dam at site about 8 mi (13 km) upstream with drainage area of 559 mi² (1,448 km²) adjusted to gage site by 0.8 power of the drainage-area ratio; no flow July 31, Aug. 1, 2, 1934, Oct. 13-27, 1963.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1437: 1923-24(M), 1925-30, 1932(M), 1933, 1934(M), 1935, 1938(M), 1946, 1948(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,950	260	570	752	450	220	1,550	1,340	2,960	85	41	32
2	2,290	727	453	722	1,290	400	1,880	916	1,350	75	36	29
3	1,150	1,740	437	533	2,910	2,260	2,050	565	777	64	30	24
4	722	1,340	492	1,560	2,470	3,680	1,870	432	3,360	57	26	19
5	445	812	935	2,350	1,660	3,650	4,170	412	4,780	50	23	18
6	255	625	2,200	1,420	1,340	3,700	3,890	400	4,630	44	20	21
7	184	537	3,480	984	1,190	2,960	2,430	344	3,560	38	16	17
8	148	1,250	2,280	699	998	2,170	1,870	251	2,280	35	13	16
9	119	2,110	1,550	510	812	1,630	1,470	303	1,440	32	12	15
10	100	1,630	1,430	390	600	1,230	1,190	1,190	780	27	10	13
11	90	1,180	1,140	300	400	1,200	1,210	2,430	404	25	10	12
12	82	1,010	800	240	330	1,760	1,150	2,880	251	23	10	11
13	78	758	1,350	200	300	1,530	972	2,130	393	22	8.9	10
14	78	3,390	1,870	180	280	1,690	738	1,470	390	21	8.9	9.3
15	72	4,880	1,420	160	275	5,430	530	900	350	20	36	10
16	70	3,130	977	160	437	4,830	390	520	416	18	134	11
17	67	2,050	700	160	390	3,630	332	390	359	18	134	11
18	64	1,710	650	200	350	3,930	456	359	273	17	128	12
19	64	1,400	615	250	300	3,350	1,020	326	273	17	206	12
20	59	1,100	770	666	270	2,920	647	933	227	19	182	10
21	56	1,080	1,300	546	260	2,620	452	3,540	201	29	156	8.9
22	59	1,030	2,520	501	273	2,130	362	2,720	168	26	329	9.3
23	82	949	3,380	752	245	1,710	317	1,900	134	26	347	12
24	173	758	2,920	956	241	2,230	280	2,850	125	32	227	12
25	315	610	2,320	722	240	2,350	249	2,590	116	39	149	13
26	265	620	1,760	550	230	2,720	225	1,760	110	33	95	14
27	199	1,150	1,330	500	220	2,600	374	1,370	110	27	64	12
28	154	1,210	949	480	220	1,910	3,160	1,280	137	30	47	17
29	181	963	699	615	------	1,600	3,890	828	130	75	36	40
30	303	746	640	550	------	1,650	2,060	598	100	67	30	72
31	313	------	645	500	------	1,700	------	2,830	------	53	42	------
TOTAL	12,187	40,755	42,582	19,108	18,981	75,390	41,184	40,757	30,584	1,144	2,606.8	522.5
MEAN	393	1,359	1,374	616	678	2,432	1,373	1,315	1,019	36.9	84.1	17.4
MAX	3,950	4,880	3,480	2,350	2,910	5,430	4,170	3,540	4,780	85	347	72
MIN	56	260	437	160	220	220	225	251	100	17	8.9	8.9
CFSM	.68	2.34	2.36	1.06	1.17	4.19	2.36	2.26	1.75	.06	.14	.03
IN.	.78	2.61	2.73	1.22	1.22	4.83	2.64	2.61	1.96	.07	.17	.03

CAL YR 1972 TOTAL 328,104.0 MEAN 896 MAX 9,380 MIN 10 CFSM 1.54 IN 21.01
WTR YR 1973 TOTAL 325,801.3 MEAN 893 MAX 5,430 MIN 8.9 CFSM 1.54 IN 20.86

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	2100	8.05	6,280	6-6	0015	7.72	5,750

04212500 Ashtabula River near Ashtabula, Ohio

LOCATION.--Lat 41°51'20", long 80°45'44", Ashtabula County, on left bank at downstream side of State Road bridge, 1.1 mi (1.8 km) upstream from Hubbard Run, 1.3 mi (2.1 km) southeast of Ashtabula, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--July 1924 to December 1935, March 1939 to November 1947, March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 612.50 ft (186.690 m) above mean sea level, unadjusted. Prior to Aug. 27, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 146 ft³/s (4.135 m³/s), 16.39 in/yr (416.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft³/s (72.2 m³/s) Mar. 15, gage height, 4.03 ft (1.228 m); minimum, 0.44 ft³/s (0.012 m³/s) Sept. 27, 28.

Period of record: Maximum discharge, 11,600 ft³/s (329 m³/s) Jan. 22, 1959, gage height, 11.03 ft (3.362 m), from rating curve extended above 4,600 ft³/s (130 m³/s); no flow at times during most years.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 954: 1929(M). WSP 974: 1942. WSP 1437: 1926, 1932, 1934. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	54	74	293	84	50	353	133	442	23	1.5	1.5
2	235	261	68	160	446	120	400	99	144	17	1.3	1.1
3	86	730	86	89	1,110	1,240	198	86	86	13	1.1	.90
4	49	260	124	778	472	1,310	301	102	858	10	1.0	.70
5	34	148	300	552	203	694	1,670	140	577	8.4	.90	.60
6	26	99	994	164	127	770	1,100	114	502	6.6	.90	4.0
7	21	74	1,010	80	124	374	216	77	317	5.5	.81	3.4
8	19	262	255	65	180	212	144	59	120	4.2	.81	2.8
9	17	676	176	46	130	148	127	216	68	3.4	.90	1.8
10	15	270	203	38	90	117	144	667	45	2.5	1.2	1.3
11	12	140	152	30	75	148	168	502	34	2.2	4.2	1.1
12	10	130	100	26	55	407	117	270	27	1.6	2.8	1.0
13	10	97	550	24	44	235	91	133	29	1.5	2.0	.81
14	10	1,480	428	24	42	461	72	86	61	1.1	2.2	.81
15	9.6	1,160	180	22	40	2,010	59	74	54	.90	6.0	.81
16	11	414	130	24	90	603	52	74	34	.81	8.7	.73
17	10	225	110	26	70	698	49	81	26	.65	24	.54
18	10	180	100	30	55	807	107	94	26	.65	13	.90
19	10	137	95	38	46	387	414	70	24	.65	9.0	.81
20	10	164	120	300	42	400	189	233	22	.73	27	.73
21	10	275	502	144	46	414	114	920	20	1.3	133	.73
22	13	198	980	110	42	265	81	250	17	1.1	160	.81
23	17	148	1,000	348	42	216	66	168	13	.90	61	1.5
24	70	114	667	250	40	368	54	463	13	.73	32	1.1
25	114	86	478	133	40	550	47	342	11	.81	18	.90
26	68	148	329	120	38	730	39	164	10	1.0	12	.73
27	47	329	265	100	36	394	59	102	10	2.0	7.2	.59
28	36	198	168	144	36	189	1,840	77	13	1.1	3.8	2.8
29	37	127	110	212	------	207	991	72	13	1.3	2.5	8.4
30	104	89	97	140	------	265	255	97	26	1.8	1.8	19
31	84	------	194	107	------	265	------	1,330	------	1.8	2.2	------
TOTAL	2,284.5	8,673	10,045	4,617	3,845	15,054	9,517	7,295	3,642	118.23	542.82	62.95
MEAN	73.7	289	324	149	137	486	317	235	121	3.81	17.5	2.10
MAX	1,080	1,480	1,010	778	1,110	2,010	1,840	1,330	858	23	160	19
MIN	9.6	54	68	22	36	50	39	59	10	.65	.81	.59
CFSM	.61	2.39	2.68	1.23	1.13	4.02	2.62	1.94	1.00	.03	.14	.02
IN.	.70	2.67	3.09	1.42	1.18	4.63	2.93	2.24	1.12	.04	.17	.02

CAL YR 1972 TOTAL 88,411.70 MEAN 242 MAX 4,650 MIN 1.6 CFSM 2.00 IN 27.18
WTR YR 1973 TOTAL 65,696.60 MEAN 180 MAX 2,010 MIN .59 CFSM 1.49 IN 20.20

PEAK DISCHARGE (BASE, 2,600 CFS).--No peak above base.

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04213000 Conneaut Creek at Conneaut, Ohio

LOCATION.--Lat 41°55'37", long 80°36'15", Ashtabula County, on right bank at downstream side of Keefus Road bridge at Conneaut, and 6.4 mi (10.3 km) upstream from mouth.

DRAINAGE AREA.--175 mi² (453 km²).

PERIOD OF RECORD.--July 1922 to December 1935, March 1950 to September 1961 (published as "at Amboy"), October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.30 ft (186.019 m) above mean sea level, unadjusted. Prior to Aug. 17, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 253 ft³/s (7.165 m³/s), 19.64 in/yr (498.9 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,410 ft³/s (96.6 m³/s) Mar. 16, gage height, 6.47 ft (1.972 m); minimum daily discharge, 10 ft³/s (0.28 m³/s) Sept. 23, 24.

Period of record: Maximum discharge, 17,000 ft³/s (481 m³/s) Jan. 22, 1959, gage height, 11.70 ft (3.566 m); maximum gage height, 12.94 ft (3.944 m) Mar. 4, 1934 (backwater from ice); minimum discharge, 0.2 ft³/s (0.006 m³/s) July 31, Aug. 1, 1933, Aug. 1, 2, 1934.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 714: 1926. WSP 784: 1933. WSP 1437: 1923-25(M), 1926-30, 1931-32(M), 1933, 1935(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,430	140	165	908	205	100	315	255	1,600	38	12	14
2	768	197	152	540	484	300	295	187	388	28	12	17
3	227	1,170	156	275	1,700	1,300	255	171	207	25	11	27
4	120	750	265	610	1,150	1,710	290	207	690	22	11	17
5	83	293	476	1,150	412	1,320	1,200	265	1,720	36	11	14
6	63	219	1,070	388	275	943	1,390	253	817	27	11	14
7	53	163	1,800	185	268	660	476	163	391	21	11	14
8	47	237	680	150	340	370	290	128	237	18	11	14
9	45	901	328	130	240	333	253	248	165	15	12	14
10	42	738	394	110	190	239	243	635	122	14	14	14
11	35	310	343	85	140	250	270	915	97	14	19	14
12	35	237	250	70	110	560	229	545	84	14	12	14
13	33	205	585	60	100	524	189	278	78	14	11	13
14	32	999	936	60	95	492	152	193	113	14	12	13
15	34	2,050	394	55	90	2,140	130	158	149	14	13	12
16	32	894	268	55	120	2,060	115	173	88	14	16	12
17	29	403	240	70	130	780	110	181	67	14	30	12
18	29	323	220	80	120	1,260	125	219	69	14	16	12
19	31	293	210	100	110	665	382	171	76	13	37	11
20	28	285	300	550	100	590	340	193	64	13	44	11
21	28	385	500	368	110	545	207	1,310	58	13	385	11
22	32	379	929	253	100	424	154	831	47	11	845	11
23	40	293	1,360	532	95	360	127	300	40	11	207	10
24	97	229	1,280	585	95	496	110	385	36	11	94	10
25	315	185	1,090	313	95	845	99	540	35	11	55	17
26	227	191	929	250	90	985	87	394	32	13	37	14
27	144	373	675	220	90	824	116	221	32	18	27	13
28	100	363	430	240	85	373	1,200	169	30	19	22	14
29	93	265	303	373	------	288	2,070	147	37	14	18	26
30	229	201	243	320	------	280	550	207	44	13	15	38
31	239	------	488	239	------	310	------	810	------	12	16	------
TOTAL	4,740	13,671	17,459	9,324	7,139	22,326	11,769	10,852	7,613	528	2,047	447
MEAN	153	456	563	301	255	720	392	350	254	17.0	66.0	14.9
MAX	1,430	2,050	1,800	1,150	1,700	2,140	2,070	1,310	1,720	38	845	38
MIN	28	140	152	55	85	100	87	128	30	11	11	10
CFSM	.87	2.61	3.22	1.72	1.46	4.11	2.24	2.00	1.45	.10	.38	.09
IN.	1.01	2.91	3.71	1.98	1.52	4.75	2.50	2.31	1.62	.11	.44	.10

CAL YR 1972 TOTAL 142,824.0 MEAN 390 MAX 8,230 MIN 4.3 CFSM 2.23 IN 30.36
WTR YR 1973 TOTAL 107,915.0 MEAN 296 MAX 2,140 MIN 10 CFSM 1.69 IN 22.94

PEAK DISCHARGE (BASE, 2,900 CFS).--Mar. 16 (0300) 3,410 cfs (6.47 ft).

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Beaver River basin				
*03092099	Hinkley Creek at Charlestown, Ohio	Lat 41°09'16", long 81°08'51", Portage County, at bridge on Rock Spring Road, 0.6 mile south of Charlestown, 2.2 miles upstream from mouth.	7.85	1969-73	a9- 5-73	0.48
		Little Beaver Creek basin				
03109100	Middle Fork Little Beaver Creek near Rogers, Ohio	Lat 40°43'22", long 80°38'03", Columbiana County, at bridge on State Highway 7, 0.4 mile upstream from West Fork Little Beaver Creek, 5 miles south of Rogers	149	1972-73	a8-28-73	11.1
03109200	West Fork Little Beaver Creek at West Point, Ohio	Lat 40°42'38", long 80°41'49", Columbiana County, at bridge on U.S. Highway 30, 0.3 mile downstream from Patterson Creek, at West Point.	99.9	1959, 1972-73	a8-28-73	10.7
03109400	North Fork Little Beaver Creek near Negley, Ohio	Lat 40°46'30", long 80°32'36", Columbiana County, at county road bridge at Achor, 0.5 mile downstream from Bull Creek, 1.1 miles south of Negley.	166	1959, 1972-73	a8-28-73	52.0
		Yellow Creek basin				
03110600	North Fork Yellow Creek at Hammondsville, Ohio	Lat 40°33'27", long 80°42'20", Jefferson County, at bridge on State Highway 213, at north edge of Hammondsville.	59.4	1959, 1962-73	a8-29-73	3.81
		Sunfish Creek basin				
03114250	Sunfish Creek at Cameron, Ohio	Lat 39°46'00", long 80°56'09", Monroe County, at bridge on State Highway 78, 0.5 mile east of Cameron, 4 miles upstream from mouth.	99.6	1959, 1962-73	a8-30-73	.67
		Little Muskingum River basin				
03115300	Little Muskingum River near Rinard Mills, Ohio	Lat 39°36'25", long 81°07'21", Monroe County, at bridge on County Road 6B, 1.5 miles upstream from Straight Fork, 2.3 miles northeast of Rinard Mills.	130	1972-73	a8-30-73	1.29
		Duck Creek basin				
03115650	East Fork Duck Creek at Lower Salem, Ohio	Lat 39°34'26", long 81°23'25", Washington County, at bridge on Township Road 319, 0.9 mile northeast of Lower Salem, 1.0 mile upstream from Pawpaw Creek.	111	1959, 1972-73	a8-30-73	3.42
03115700	West Fork Duck Creek at Dexter City, Ohio	Lat 39°39'45", long 81°28'25", Noble County, at bridge on State Highway 821 at Dexter City, 0.7 mile upstream from Buffalo Run.	75.4	1965-69, 1972-73	a8-30-73	1.58
03115800	Duck Creek at Stanleyville, Ohio	Lat 39°28'14", long 81°24'41", Washington County, at bridge on county road at Stanleyville, 1 mile upstream from Sugar Creek.	267	1959, 1962-73	a8-30-73	6.78
		Muskingum River basin				
03115900	Tuscarawas River near East Liberty, Ohio	Lat 41°00'25", long 81°29'31", Summit County, at bridge on Arlington Road, 2.3 miles north of East Liberty.	33.1	1960-67, 1969-73	a8-29-73	17.2
*03119700	Conotton Creek at Jewett, Ohio	Lat 40°21'59", long 81°00'13", Harrison County, at bridge on State Highway 9, in Jewett.	14.3	1965-73	a8-30-73	.88
03119900	Conotton Creek at Leesville, Ohio	Lat 40°26'44", long 81°11'49", Carroll County, at bridge on State Highway 164, 0.9 mile southeast of Leesville, 2.5 miles upstream from McGuire Creek.	87.1	1959, 1972-73	a8-29-73	6.53
03129100	White Eyes Creek near Fresno, Ohio	Lat 40°18'17", long 81°45'01", Coshocton County, at bridge on private road adjacent to State Highway 93, 2 miles south of Fresno.	52.1	1972-73	a8-28-73	5.78

See footnotes at end of table, p. 216.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Muskingum River basin--Continued				
03134300	Muddy Fork near Rowsburg, Ohio	Lat 40°50'10", long 82°08'16", Ashland County, at bridge on Township Road 1550, 1.8 miles southeast of Rowsburg.	66.2	1972-73	a8-29-73	4.11
03138800	Killbuck Creek at Wooster, Ohio	Lat 40°48'03", long 81°58'30", Wayne County, at bridge on Old Mansfield Road, 2 miles northwest of Wooster.	128	1959, 1962-67, 1970-73	a8-29-73	7.57
03140700	Buffalo Fork (head of Wills Creek) at Pleasant City, Ohio	Lat 39°54'15", long 81°33'14", Guernsey County, at bridge on State Highway 821, at Pleasant City, 0.2 mile upstream from Buffalo Creek.	71.1	1959, 1962-67, 1969-73	a8-29-73	7.37
03140800	Buffalo Creek at Pleasant City, Ohio	Lat 39°54'10", long 81°33'03", Guernsey County, at bridge on State Highway 146, at Pleasant City, just upstream from mouth.	49.9	1959, 1962-67, 1969-73	a8-29-73	.28
03141900	Leatherwood Creek near Cambridge, Ohio	Lat 40°01'18", long 81°32'51", Guernsey County, at bridge on County Road 461, 2.2 miles east of Cambridge, 3.5 miles upstream from mouth.	88.0	1959, 1962-67, 1969-73	a8-29-73	3.51
03146250	North Fork Licking River above Newark, Ohio	Lat 40°06'19", long 82°25'02", Licking County, at American Aggregates plant, 1.3 miles downstream from Dry Creek, 1.5 miles upstream from Newark Water Supply plant.	224	1944, 1964, 1972-73	6-14-73 a9-12-73	153 33.4
03148450	Jonathan Creek at East Fultonham, Ohio	Lat 39°51'20", long 82°07'35", Muskingum County, at bridge on old U.S. Highway 22, at East Fultonham, 1 mile upstream from Buckeye Fork.	125	1972-73	6-11-73 a9-13-73	80.7 10.1
03149500	Salt Creek near Chandlersville, Ohio	Lat 39°54'31", long 81°51'38", Muskingum County, at bridge on State Highway 146, 1 mile upstream from Buffalo Fork, 2 miles northwest of Chandlersville.	75.7	1935-47#, 1959, 1962-73	6-11-73 8-29-73 a9-13-73	48.2 3.23 1.51
03150480	West Branch Wolf Creek near Waterford, Ohio	Lat 39°31'43", long 81°39'22", Washington County, adjacent to State Highway 76, 400 ft upstream from South Branch, 1.2 miles southwest of Waterford.	144	1959, 1972-73	a8-30-73	4.08
03150490	South Branch Wolf Creek near Waterford, Ohio	Lat 39°31'28", long 81°39'31", Washington County, at bridge on State Highway 76, 0.8 mile upstream from mouth, 1.5 miles southwest of Waterford.	79.3	1972-73	a8-30-73	.71
		Little Hocking River basin				
03155800	Little Hocking River near Little Hocking, Ohio	Lat 39°17'38", long 81°41'17", Washington County, at bridge on county road, 2.2 miles north of Little Hocking, 3.2 miles upstream from mouth.	47.9	1959-60, 1962-73	a8-30-73 9-12-73	.31 .06
		Hocking River basin				
03156700	Rush Creek near Sugar Grove, Ohio	Lat 39°38'18", long 82°30'42", Fairfield County, at bridge on Berne Township Road 294, 2 miles northeast of Sugar Grove.	229	1956, 1961-73	6-12-73 a9-13-73	115 20.1
03159520	Federal Creek near Stewart, Ohio	Lat 39°20'30", long 81°53'03", Athens County, at bridge on State Highway 329, 2.5 miles north of Stewart, 4 miles north of U.S. Highway 50.	136	1956, 1962-73	6-11-73 7-19-73 a9-12-73	36.4 3.76 1.52
		Leading Creek basin				
03160050	Leading Creek near Middleport, Ohio	Lat 39°00'31", long 82°05'07", Meigs County, at first private bridge 1.5 miles upstream from State Highway 7 bridge, 1.8 miles northwest of Middleport.	117	1956, 1962-73	7-18-73 a9-12-73	11.7 2.11
		Raccoon Creek basin				
03201990	Little Raccoon Creek near Vinton, Ohio	Lat 38°57'12", long 82°21'57", Gallia County, at bridge on State Highway 325, 1.2 miles upstream from mouth, 2 miles southwest of Vinton.	154	1951-53, 1959, 1965, 1972-73	7-18-73 a9-11-73	42.5 14.7
		Indian Guyan Creek basin				
03205210	Indian Guyan Creek near Bradrick, Ohio	Lat 38°28'41", long 82°23'54", Lawrence County, at bridge on Township Road C-69, 200 ft upstream from relocated Fourmile Creek, 2.5 miles north of Bradrick.	67.5	1972-73	7-18-73 a9-11-73	2.93 1.18
		Pine Creek basin				
03216640	Pine Creek near Wheelersburg, Ohio	Lat 38°39'12", long 82°48'09", Scioto County, at bridge on Junior Furnace-Powellsville Road, 1.7 miles upstream from Poplar Fork, 6 miles southeast of Wheelersburg.	152	1972-73	7-18-73 a9-11-73	14.1 4.36

See footnotes at end of table, p. 216.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Little Scioto River basin				
03216700	Little Scioto River at Sciotoville, Ohio	Lat 38°46'19", long 82°52'38", Scioto County, at bridge just east of State Highway 335, 0.2 mile upstream from Swamp Valley Run, 1.5 miles northeast of junction of U.S. Highway 52 and State Highway 335 in Sciotoville.	223	1959, 1962-67, 1969-73	7-18-73 a9- 5-73	25.4 2.35
		Scioto River basin				
03217400	Scioto River near Kenton, Ohio	Lat 40°38'50", long 83°38'20", Hardin County, at bridge on County Road 130, 1.5 miles west of Kenton.	129	1961-67, 1969-73	6-11-73 a9- 6-73	60.2 16.4
03217500	Scioto River at LaRue, Ohio	Lat 40°34'28", long 83°23'15", Marion County, 200 ft below bridge on State Highway 95, at LaRue, 3.5 miles above Rush Creek.	257	1927-35#, 1939-51#, 1962-67, 1971-73	9- 6-73 a9-20-73	20.4 14.8
03217600	Rush Creek near LaRue, Ohio	Lat 40°33'33", long 83°19'57", Marion County, at bridge on County Road 38, 0.5 mile upstream from mouth, 3 miles southeast of LaRue.	105	1956, 1961-67, 1969-73	6-11-73 a9- 6-73	14.8 4.56
*03218000	Little Scioto River above Marion, Ohio	Lat 40°37'43", long 83°10'11", Marion County, at bridge on Chesapeake and Ohio Railway, 1 mile downstream from Rock Fork, 3.5 miles northwest of Marion, 7.2 miles upstream from Honey Creek.	72.4	1939-71#, 1972-73	6-11-73 a9- 6-73	34.6 3.15
03228200	Big Walnut Creek above Sunbury, Ohio	Lat 40°15'04", long 82°50'46", Delaware County, at bridge on U.S. Highway 36, 0.5 mile downstream from Perfect Creek, at Sunbury.	77.8	1972-73	6-14-73 a9-12-73	62.9 1.19
03228700	Blacklick Creek near Groveport, Ohio	Lat 39°53'26", long 82°51'50", Franklin County, at bridge on Winchester Pike, 2 miles upstream from mouth, 2.5 miles northeast of Groveport.	57.4	1950, 1959, 1961-73	6-12-73 a9-13-73	33.0 7.50
03229800	Walnut Creek near Ashville, Ohio	Lat 39°40'56", long 82°58'30", Pickaway County, at bridge on U.S. Highway 23, 0.5 mile upstream from mouth, 1.2 miles southwest of Ashville.	285	1954, 1961-67, 1969-73	6-10-73 a9- 5-73	168 62.1
*03230600	Hominy Creek at Circleville, Ohio	Lat 39°35'26", long 82°55'25", Pickaway County, at bridge adjacent to State Highway 56, 0.4 mile southeast of railroad crossing at east edge of Circleville.	5.66	1947, 1952, 1962-73	a9- 5-73	.67
03231300	Kinnikinnick Creek near Kinnikinnick, Ohio	Lat 39°26'23", long 82°58'35", Ross County, at bridge on old U.S. Highway 23, 1 mile upstream from mouth, 1.5 miles northwest of Kinnikinnick.	36.2	1954, 1958, 1961-73	6-10-73 a9- 5-73	22.8 11.6
03234080	North Fork Paint Creek near Frankfort, Ohio	Lat 39°26'11", long 83°13'22", Ross County, at bridge on State Highway 138 at Austin, 3.5 miles northwest of Frankfort.	151	1972-73	7-17-73 a9- 5-73	73.7 28.8
*03235000	Salt Creek at Tarlton, Ohio	Lat 39°17'26", long 82°46'51", Pickaway County, at bridge on State Highway 159 in Tarlton.	11.5	1946-61#, 1962-67, 1969-73	a9- 5-73	.63
03235100	Salt Creek at Laurelville, Ohio	Lat 39°27'46", long 82°44'08", Hocking County, at bridge on Township Road 174, 200 ft upstream from Brimstone Creek, 0.5 mile south of Laurelville.	106	1972-73	6-10-73 a9- 5-73	51.2 8.40
03237130	Scioto Brush Creek at Otway, Ohio	Lat 38°51'43", long 83°11'24", Scioto County, at bridge on State Highway 348, 600 ft upstream from South Fork, at Otway.	94.4	1956, 1972-73	7-17-73 a9- 6-73	7.66 1.88
03237150	South Fork Scioto Brush Creek at Wamsley, Ohio	Lat 38°49'54", long 83°16'42", Adams County, at bridge on State Highway 348, at Wamsley.	56.1	1972-73	7-17-73 a9- 6-73	7.98 .51
		Ohio Brush Creek basin				
03237295	Ohio Brush Creek near Peebles, Ohio	Lat 38°58'06", long 83°25'34", Adams County, at bridge on State Highway 32, 1.6 miles upstream from Little East Fork, 1.7 miles northwest of Peebles.	154	1959-60, 1972-73	7-17-73 a9- 6-73	22.6 6.69
03237400	West Fork Ohio Brush Creek at Lawshe, Ohio	Lat 38°56'22", long 83°28'28", Adams County, at bridge on Township Road C-13 at Lawshe, 0.4 mile upstream from mouth.	134	1959-60, 1972-73	7-17-73 a9- 6-73	7.28 1.83
		Eagle Creek basin				
03238200	Eagle Creek near Ripley, Ohio	Lat 38°43'35", long 83°47'15", Brown County, at highway bridge 0.4 mile upstream from Beetle Creek, 3.2 miles southeast of Ripley.	137	1959-73	7-17-73 a9- 6-73	15.1 1.94

See footnotes at end of table, p. 216.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Great Miami River basin				
03260620	Muchinippi Creek near Russells Point, Ohio	Lat 40°26'21", long 83°56'28", Logan County, at bridge on State Highway 274, 2.3 miles upstream from mouth, 3.5 miles southwest of Russells Point.	86.2	1959, 1972-73	8- 7-73 a9-18-73	9.27 4.49
03262650	Spring Creek near Troy, Ohio b/	Lat 40°05'18", long 84°10'27", Miami County, adjacent to DeWeese Road, 600 ft south of Rusk Road, 2.5 miles upstream from mouth, 3 miles north-northeast of Troy.	21.0	1968-73	10-17-72 11-28-72 1-18-73 2-27-73 4- 5-73 5-22-73 8- 8-73 a9- 6-73	14.8 37.8 9.77 8.74 122 10.9 4.24 4.29
03262990	Honey Creek near New Carlisle, Ohio b/	Lat 39°58'11", long 84°06'33", Miami County, at bridge on Rudy Road, 0.5 mile downstream from Indian Creek, 5 miles northwest of New Carlisle.	72.8	1969-73	8- 1-73 a9-27-73	46.3 19.0
03267400	Cedar Run near Tremont City, Ohio	Lat 40°01'49", long 83°48'59", Champaign County, at bridge on private road, 900 ft north of County Line Road, 0.3 mile upstream from mouth, 1.6 miles northeast of Tremont City.	2.08	1972-73	12-11-72 8- 2-73 a9-27-73	12.2 10.5 7.07
03267600	Chapman Creek at Tremont City, Ohio	Lat 40°00'38", long 83°50'08", Clark County, at bridge on Upper Valley Pike, at Tremont City, 0.8 mile upstream from mouth.	24.0	1944, 1948, 1968-69#, 1971-73	8- 2-73 a9-27-73	6.39 3.57
03272700	Sevenmile Creek at Camden, Ohio b/	Lat 39°37'45", long 84°38'40", Preble County, at bridge on State Highway 725, at Camden, 0.3 mile downstream from Beasley Run.	69.0	1970-73	10-20-72 8- 2-73	3.04 36.2
		Wabash River basin				
03322480	Wabash River above Beaver Creek at Wabash, Ohio	Lat 40°32'44", long 84°44'29", Mercer County, at bridge on State Highway 29, 0.2 mile upstream from Crab Branch, 0.5 mile east of Wabash.	119	1959, 1972-73	8- 1-73 9-19-73	5.89 4.10
		Streams tributary to Lake Erie				
04177300	East Branch St. Joseph River near Pioneer, Ohio	Lat 41°39'56", long 84°32'31", Williams County, at bridge on U.S. Highway 20, 1.2 miles southeast of Pioneer.	158	1955-56, 1962-67, 1969-73	7-31-73 a9-19-73	40.0 12.3
04177230	West Branch St. Joseph River near Pioneer, Ohio	Lat 41°39'14", long 84°34'20", Williams County, at bridge on U.S. Highway 20, 0.7 mile upstream from mouth 2 miles southwest of Pioneer.	113	1955-56, 1972-73	7-31-73 a9-19-73	41.7 12.7
04177820	Fish Creek near Edgerton, Ohio	Lat 41°27'59", long 84°46'37", Williams County, at bridge on County Road C-60, 2 miles northwest of Edgerton, 2.7 miles upstream from mouth.	107	1972-73	7-31-73 8- 7-73 a9-19-73	99.1 25.6 8.69
04180950	St. Marys River at Mendon, Ohio	Lat 40°40'35", long 84°31'07", Mercer County, at bridge on State Highway 707, at Mendon.	297	1955, 1962-69, 1971-73	8- 7-73 a9-20-73	33.2 20.4
04181000	St. Marys River near Willshire, Ohio	Lat 40°44'05", long 84°44'10", Van Wert County, at bridge on Horner Road, 0.8 mile upstream from Black Creek, 3 miles southeast of Willshire.	354	1926-32#, 1955, 1963-67, 1972-73	8- 8-73 9-19-73	46.5 23.8
04185900	Auglaize River near Buckland, Ohio	Lat 40°39'11", long 84°15'35", Auglaize County, at bridge on National Road, 2 miles north of Buckland.	158	1955, 1961-67, 1969-73	8- 1-73 a9-20-73	52.4 9.85
04188300	Blanchard River at Mt. Blanchard, Ohio	Lat 40°53'28", long 83°33'50", Hancock County, at bridge on State Highway 103, 0.6 mile southwest of Mt. Blanchard, and 0.4 mile west of intersection with State Highway 37.	109	1970-73	6- 4-73 a9-20-73	35.8 1.69
04189180	Riley Creek near Ottawa, Ohio	Lat 41°00'00", long 84°00'00", Putnam County, at bridge on County Road K-6, 1.2 miles upstream from mouth, 3 miles southeast of Ottawa.	84.9	1955-56, 1972-73	6- 4-73 a9-20-73	28.0 1.42
04190400	Little Auglaize River near Melrose, Ohio	Lat 41°03'33", long 84°24'01", Paulding County, at bridge 0.4 mile upstream from Middle Creek, 2.2 miles southeast of Melrose.	[illegible]	1955-56, 1962-67, 1970-73	7-31-73 a9-18-73	11.5 .13
04191100	Flatrock Creek near Payne, Ohio	Lat 41°05'57", long 84°40'06", Paulding County, at bridge on Township Road 71, 2 miles downstream from Wildcat Creek, 3.5 miles northeast of Payne.	147	1972-73	7-31-73 9-19-73	1.97 0
04192600	South Turkeyfoot Creek near Malinta, Ohio	Lat 41°22'15", long 84°01'22", Henry County, at bridge on U.S. Highway 6, 1.8 miles upstream from Little Turkeyfoot Creek, 3.5 miles north of Malinta.	121	1955-56, 1972-73	7-30-73 9-18-73	4.68 0

See footnotes at end of table, p. 216.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Streams tributary to Lake Erie--Continued				
04192800	Beaver Creek near Grand Rapids, Ohio	Lat 41°23'37", long 83°50'42", Wood County, at bridge on Wintergreen Road, 1.8 miles southeast of Grand Rapids.	185	1955-56, 1962-73	7-30-73 a9-18-73	10.8 .44
04194200	Toussaint Creek near Limestone, Ohio	Lat 41°32'58", long 83°14'29", Ottawa County, at bridge 1.2 miles west of Limestone.	79.0	1959-73	7-30-73 a9-18-73	10.8 8.01
04194400	South Branch Portage River near Six Points, Ohio	Lat 41°18'41", long 83°30'36", Wood County, at bridge on Greensburg Pike, 3 miles northeast of Six Points.	99.5	1959-73	7-30-73 a9-18-73	11.5 4.49
04194500	Portage River near Pemberville, Ohio	Lat 41°22'45", long 83°28'35", Wood County, at highway bridge 0.1 mile west of junction of Wayne Road and South River Road, 2.5 miles southwest of Pemberville.	337	1930-35#, 1959-73	7-30-73 a9-18-73	44.7 5.16
04198010	Green Creek near Fremont, Ohio	Lat 41°23'36", long 83°01'35", Sandusky County, at bridge on U.S. Highway 6, 5 miles northeast of Fremont.	81.5	1959-73	a9- 6-73 9-17-73	14.8 13.9
04198015	Cold Creek near Castalia, Ohio	Lat 41°25'12", long 82°48'02", Erie County, 0.4 mile downstream from bridge on Homegardner Road, 1.2 miles downstream from Blue Hole Outlet, 1.5 miles northeast of Castalia.	(c)	1950, 1962-73	a9- 6-73	55.3
04198020	West Branch Huron River near Monroeville, Ohio	Lat 41°16'46", long 82°40'32", Huron County, at bridge on Lamoreaux Road, 2.5 miles northeast of Monroeville, 2.5 miles upstream from mouth.	220	1960-73	a9- 6-73	14.4
04200050	West Branch Black River near Oberlin, Ohio	Lat 41°15'58", long 82°10'47", Lorain County, at bridge at corner of Kipton Nickel Plate Road and West Road, 2.5 miles southeast of Oberlin.	81.9	1960-73	a9- 5-73	.79
04201400	West Branch Rocky River at West View, Ohio	Lat 41°21'03", long 81°54'12", on Cuyahoga-Lorain County line, at bridge on State Highway 252 at West View.	147	1951, 1960-73	a9- 5-73	8.32
04208900	Aurora Branch near Chagrin Falls, Ohio	Lat 41°24'40", long 81°24'48", Cuyahoga County, at bridge on Solon Road, 1.0 miles upstream from mouth, 1.6 miles southwest of Chagrin Falls.	57.4	1953, 1972-73	a9- 6-73	18.4
04210000	Phelps Creek near Windsor, Ohio	Lat 41°30'56", long 80°56'07", Ashtabula County, at bridge on State Highway 534, 1.4 miles south of Windsor, 1.5 miles upstream from mouth.	25.6	1942-59#, 1962-66, 1971-73	a9- 6-73	.89

* Also a crest-stage station.
# Operated as a continuous-record gaging station.
a Water quality records for the current year are published in part 2 of this report.
b/ Miami Conservancy District station, data furnished.
c/ Flow largely from limestone springs.

The following table contains annual maximum discharge for crest-stage stations. A crest-stage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Beaver River basin					
03089500	Mill Creek near Berlin Center, Ohio	Lat 41°00'01", long 80°58'07", Mahoning County, at bridge on county road, 1 mile upstream from flow line of Berlin Reservoir, 1.2 miles upstream from Turkeybroth Creek, 2 miles southwest of Berlin Center.	19.1	1942-71#, 1972-73	4-1-73	6.55	1,570
*03092099	Hinkley Creek at Charlestown, Ohio	Lat 41°09'16", long 81°08'51", Portage County, at bridge on Rock Spring Road, 0.6 mile south of Charlestown, 2.2 miles upstream from mouth.	7.85	1970-73	3-15-73	11.88	370
03094900	Walnut Creek at Cortland, Ohio	Lat 41°19'49", long 80°43'28", Trumbull County, at Main Street Bridge in Cortland, 1.8 miles upstream from mouth.	8.45	1947-73	3-15-73	3.65	480
03098500	Mill Creek at Youngstown, Ohio	Lat 41°04'19", long 80°41'26", Mahoning County, 600 ft upstream from suspension bridge in Mill Creek Park at Youngstown, 1 mile downstream from Newport Dam, 2.5 miles upstream from mouth.	66.3	1944-71# 1972-73	3-15-73	4.05	1,250
03098700	Crab Creek at Youngstown, Ohio	Lat 41°07'20", long 80°38'08", Mahoning County, at bridge on Hubbard Road at Youngstown, 2 miles upstream from mouth.	14.0	1959-73	3-14-73	7.45	920
03102900	Clear Creek at Dilworth, Ohio	Lat 41°26'45", long 80°39'56", Trumbull County, at bridge on State Highway 170 at Dilworth, 1.1 miles south of Gustavus, 3 miles upstream from mouth.	1.13	1947-73	6- 3-73	10.26	79
		Little Beaver Creek basin					
03109000	Lisbon Creek at Lisbon, Ohio	Lat 40°46'55", long 80°45'53", Columbiana County, at city water works of Lisbon, 800 feet upstream from bridge on State Highway 164.	6.19	1946-62#, 1963-73	3-15-73	4.62	564
		Duck Creek basin					
03115600	Barnes Run near Summerfield, Ohio	Lat 39°46'20", long 81°22'26", Noble County, at bridge on county road adjacent to State Highway 78, 2.5 miles southwest of Summerfield.	3.46	1947-73	5-25-73	10.04	320
		Muskingum River basin					
03119600	Jefferson Creek near Jewett, Ohio	Lat 40°22'57", long 80°58'36", Harrison County, at culvert adjacent to State Highway 9, 1.4 miles northeast of Jewett.	2.54	1947-73	3-15-73	11.95	140
*03119700	Conotton Creek at Jewett, Ohio	Lat 40°21'59", long 81°00'13", Harrison County, at bridge on State Highway 9 in Jewett.	14.3	1947-73	3-15-73	11.53	440
03123400	Dundee Creek at Dundee, Ohio	Lat 40°35'35", long 81°36'13", Tuscarawas County, at culvert on State Highway 93, 0.4 mile upstream from mouth, 0.5 mile northeast of Dundee.	.71	1966-73	3-15-73	23.12	149
03129300	Whetstone Creek tributary near Olivesburg, Ohio	Lat 40°53'15", long 82°24'25", Ashland County, at culvert on State Highway 96, 1.1 miles east of Olivesburg.	.236	1950-73	3-15-73	5.40	43
03136400	North Branch Kokosing River near Fredericktown, Ohio	Lat 40°30'08", long 82°38'18", Knox County, at bridge on county road, 2 miles northwest of Fredericktown, 2.7 miles upstream from East Branch.	45.5	1963-73	11- 2-72	4.63	a778
03138900	Jennings Ditch tributary near Wooster, Ohio	Lat 40°44'45", long 81°55'48", Wayne County, at culvert on State Highway 76, 0.8 mile upstream from mouth, 4 miles south of Wooster.	.90	1946, 1966-73	3-15-73	18.42	68
03144800	Etna Creek at Etna, Ohio	Lat 39°58'08", long 82°40'55", Licking County, at culvert on State Highway 310, 0.7 mile north of Etna.	1.10	1966-73	6- 5-73	10.34	69
03145600	Otter Fork near Centerburg, Ohio	Lat 40°17'35", long 82°43'09", Knox County, at culvert on State Highway 3, 1.2 miles west of Centerburg.	3.17	1947-73	6-18-73	12.85	140
03147900	Timber Run near Zanesville, Ohio	Lat 39°57'00", long 82°03'03", Muskingum County, at bridge on private road adjacent to old U.S. Highway 40, 0.5 mile west of junction of Interstate 70 with old U.S. Highway 40, 2 miles west of Zanesville.	10.1	1947-73	6-17-73	15.39	2,190

See footnotes at end of table, p. 221.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Muskingum River basin--Continued					
03148300	Moxahala Creek at Roseville, Ohio	Lat 39°48'38", long 82°04'13", Muskingum County, at pumping station about 2,500 feet downstream from First Street bridge in Roseville.	80.6 (revised)	1964-73	11-8-72	10.77	1,700
03150100	Bell Creek at McConnelsville, Ohio	Lat 39°38'50", long 81°50'36", Morgan County, at culvert on State Highway 60, 0.1 mile upstream from mouth, 0.5 mile east of McConnelsville.	1.07	1947-48, 1950-73	6- 5-73	4.70	482
03150600	Tupper Creek at DeVola, Ohio	Lat 39°28'28", long 81°27'58", Washington County, at culvert on State Highway 60 at DeVola	.99	1966-73	12- 8-72	9.31	98
		Hocking River basin					
03158100	Hayden Run at Haydenville Ohio	Lat 39°28'57", long 82°19'06", Hocking County, at culvert on U.S. Highway 33, 0.5 mile east of Haydenville.	1.04	1966-73	b/8-22-71 -----	b/22.68 c	b/127 <70
		Scioto River basin					
03218000	Little Scioto River above Marion, Ohio	Lat 40°37'43", long 83°10'11", Marion County, at bridge on Chesapeake and Ohio Railway, 1 mile downstream from Rock Fork, 3.5 miles northwest of Marion.	72.4	1939-71#, 1972-73	3-15-73	4.59	727
03219600	Eagon Run near Warrensburg, Ohio	Lat 40°19'42", long 83°09'11", Delaware County, at Herbert Eagon farm, 0.9 mile upstream from mouth, 1.7 miles northeast of Warrensburg, 5 miles northwest of Delaware.	.123	1950-62#, 1963-73	6-19-73	5.15	36
03221900	Dry Run at Columbus, Ohio	Lat 39°57'22", long 83°06'19", Franklin County, at culvert in Westinghouse employees parking lot at entrance to plant, 1,000 ft north of U.S. Highway 40, near west edge of Columbus,	1.72	1965-73	6-19-73	23.86	803
03226200	Delaware Run near Delaware, Ohio	Lat 40°16'28", long 83°06'35", Delaware County, at culvert on county highway, 400 feet south of State Highway 37, 1 mile west of Delaware Corporation line.	5.84	1947-73	6-19-73	12.19	500
03226850	Linworth Run near Linworth, Ohio	Lat 40°06'24", long 83°02'35", Franklin County, at culvert on Linworth Road, 0.4 mile upstream from mouth, 1.2 miles north of Linworth.	c.40	1966-73	7-11-69 6-19-73	26.95 25.28	b/250 225
03226890	Turkey Run at Upper Arlington, Ohio	Lat 40°02'10", long 83°04'06", Franklin County, at culvert on Lytham Road at Upper Arlington.	.90	1972-73	6-19-73	20.93	617
03226900	Fishinger Road Creek at Upper Arlington, Ohio	Lat 40°01'27", long 83°02'38", Franklin County, at culvert on Kenny Road at Upper Arlington.	.45	1964-73	6-19-73	22.47	465
03228000	Scioto Big Run at Briggsdale, Ohio	Lat 39°54'56", long 83°03'55", Franklin County, at bridge on U.S. Highway 62 at Briggsdale, 2.8 miles northeast of Grove City, 4 miles upstream from mouth.	11.0	1947-58#, 1959-73	6-20-73	13.70	3,670
03230400	Big Darby Creek at Darbydale, Ohio	Lat 39°50'58", long 83°11'20", Franklin County, at McKinley Bridge at Darbydale.	449	1964-73	6-19-73	13.10	7,180
*03230600	Hominy Creek at Circleville, Ohio	Lat 39°35'26", long 82°55'25", Pickaway County, at bridge adjacent to State Highway 56, 0.4 mile southeast of railroad crossing at east edge of Circleville.	5.66	1947-73	8-14-73	6.43	630
03231600	East Fork Paint Creek near Sedalia, Ohio	Lat 39°42'36", long 83°27'48", Madison County, at culvert on State Highway 38, 1.8 miles southeast of Sedalia.	3.82	1947-73	7- 3-73	13.33	280
03234100	Indian Creek at Massieville, Ohio	Lat 39°15'42", long 82°58'08", Ross County, at bridge adjacent to U.S. Highway 23, 0.2 mile south of Massieville.	9.60	1947-73	5-20-73	10.70	590
03235000	Salt Creek at Tarlton, Ohio	Lat 39°33'20", long 82°46'51", Pickaway County, at bridge on State Highway 159 at Tarlton.	11.5	1947-61#, 1962-73	11-14-72	59.15	400
03235200	Little Blackjack Branch near South Bloomingville, Ohio	Lat 39°27'23", long 82°30'25", Hocking County, at culvert on State Highway 664, 5.5 miles northeast of South Bloomingville.	.89	1966-73	11-14-72	18.97	75

See footnotes at end of table, p. 221.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Dis-charge (cfs)
		Scioto River basin--Continued					
03235400	West Branch Tar Hollow Creek at Tar Hollow State Park, Ohio	Lat 39°23'35", long 82°45'12", Ross County, in Tar Hollow State Park, 300 feet upstream from Tar Hollow Creek, 5 miles south of Adelphi.	0.305	1950-73	12- 8-72	4.93	16
03235995	Salt Creek above damsite near Londonderry, Ohio	Lat 39°17'26", long 82°44'45", Vinton County, at bridge on State Highway 671, 0.5 mile east of Ross County line, 2.8 miles northeast of Londonderry.	268	1963-73	11-14-72	14.0	8,500
03236100	South Branch Little Salt Creek at Jackson, Ohio	Lat 39°02'38", long 82°38'35", Jackson County, at culvert adjacent to State Highway 139, 800 feet south of Jackson High School, 1 mile upstream from mouth.	3.76	1947-73	4-28-73	14.45	380
03237210	Rose Run near Portsmouth, Ohio	Lat 38°48'07", long 82°59'03", Scioto County, at culvert on U.S. Highway 23, 2.9 miles north of Portsmouth city limits.	1.04	1966-73	12- 9-72	14.85	63
		Ohio Brush Creek basin					
03237300	West Branch Turkey Run near Winchester, Ohio	Lat 38°56'56", long 83°40'19", Adams County, at culvert on State Highway 32, 1.3 miles west of Winchester.	.80	1956-73	6-16-73	11.91	161
		Whiteoak Creek basin					
03238400	Harwood Creek near Fayetteville, Ohio	Lat 39°07'51", long 83°51'00", Brown County, at culvert on State Highway 131, 0.2 mile west of junction of State Highways 131 and 138, 6 miles southeast of Fayetteville.	.88	1966-73	8-14-73	18.96	115
03238600	Higgins Run near Higginsport, Ohio	Lat 38°49'10", long 83°57'28", Brown County, at culvert on State Highway 221, 150 feet upstream from mouth, 2 miles north of Higginsport.	.55	1966-73	7-22-73	20.56	255
		Ray Run basin					
03238700	Ray Run near Moscow, Ohio	Lat 38°51'15", long 84°12'00", Clermont County, at culvert on State Highway 743, 1.5 miles east of Moscow.	.86	1966-73	7-22-73	28.0	d/900
		Little Miami River basin					
03239000	Little Miami River near Selma, Ohio	Lat 39°48'36", long 83°44'21", Clark County, at bridge on Selma Pike, 2.3 miles northwest of Selma, 3.1 miles upstream from North Fork.	48.9	1952-58*, 1959-73	7- 3-73	6.70	1,080
03239500	North Fork Little Miami River near Pitchin, Ohio	Lat 39°49'40", long 83°46'38", Clark County, at bridge on county road, 1.1 miles upstream from Goose Creek, 1.3 miles southwest of Pitchin.	28.9	1952-58*, 1959-73	12-14-72	4.13	210
03241600	Shawnee Creek at Xenia, Ohio	Lat 39°40'32", long 83°55'32", Greene County, at bridge on U.S. Highway 68, 0.7 mile southeast of intersection with U.S. Highway 42 in Xenia.	4.21	1948-73	6-29-73	11.66	177
03242100	Wayne Creek at Waynesville, Ohio	Lat 39°31'08", long 84°04'47", Warren County, at culvert on State Highway 73, 0.8 mile southeast of intersection of State Highway 73 and U.S. Highway 42 at Waynesville.	1.01	1966-73	7-21-73	24.90	530
03247100	Patterson Run near Owensville, Ohio	Lat 39°07'38", long 84°06'44", Clermont County, at bridge on private road, 200 feet north of U.S. Highway 50, 0.5 mile upstream from Brushy Fork, 1.2 miles east of Owensville.	3.34	1947-73	8-20-73	3.43	436
		Great Miami River basin					
03262750	Millers Ditch at Tipp City, Ohio	Lat 39°57'59", long 84°10'22", Miami County, at culvert on 4th Street in Tipp City.	1.50	1966-73	6-17-73	15.36	198
03263100	Poplar Creek near Vandalia, Ohio	Lat 39°52'10", long 84°11'21", Montgomery County, at culvert on Interstate Highway 75, 1.2 miles upstream from mouth, 1.5 miles southeast of Vandalia.	3.11	1947-73	11- 2-72	3.35	201
03263700	Bridge Creek near Greenville, Ohio	Lat 40°04'13", long 84°37'45", Darke County, at culvert on State Highway 49, 2.2 miles south of Greenville.	4.83	1947-73	6-27-73	12.64	220
03265100	Hog Run tributary at Laura, Ohio	Lat 40°00'30", long 84°25'26", Miami County, at culvert on State Highway 571, 0.3 mile upstream from mouth, 1 mile northwest of Laura.	.463	1950-73	7-24-73	5.72	36
03268300	Beaver Creek at Brighton, Ohio	Lat 39°55'46", long 83°34'04", Clark County, at culvert on U.S. Highway 40, 0.2 mile west of Brighton.	3.33	1959-73	6-20-73	11.37	486

See footnotes at end of table, p. 221.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Dis-charge (cfs)
		Great Miami River basin—Continued					
03269000	Buck Creek at Springfield, Ohio	Lat 39°55'57", long 83°49'02", Clark County, at Plum Street Bridge in Springfield, 0.3 mile upstream from concrete control dam, 2.2 miles upstream from mouth.	139	1913, 1914-21#, 1924-49#, 1959-73	9- 5-73	4.88	1,500
03272000	Sevenmile Creek at Collinsville, Ohio	Lat 39°31'23", long 84°36'39", Butler County, at bridge, 0.3 mile north of Collinsville and 5.5 miles upstream from mouth.	120	1960-72#, 1973	7-21-73	7.25	6,300
03272900	Collins Creek at Collinsville, Ohio	Lat 39°31'05", long 84°36'53", Butler County, at culvert on U.S. Highway 127, 0.3 mile upstream from mouth, 0.4 mile northeast of Collinsville.	.94	1966-73	7-20-73	20.49	205
03274100	Blake Run near Reily, Ohio	Lat 39°27'59", long 84°45'22", Butler County, 600 feet upstream from culvert on Stevenson Road, 2.2 miles north of Reily, 3 miles upstream from mouth.	.29	1939-40, 1942-43, 1947-73	7-20-73	2.58	17
		Streams tributary to Lake Erie					
04176900	Mill Ditch near Richards, Ohio	Lat 41°39'54", long 83°40'05", Lucas County, at culvert on U.S. Highway 20, 1.4 miles west of Richards, 3.4 miles north of intersection of U.S. Highway 20 and State Highway 2.	3.35	1947-73	6-28-73	11.95	115
04177800	Eagle Creek tributary near Montpelier, Ohio	Lat 41°35'10", long 84°40'50", Williams County, at culvert on State Highway 107, 3.5 miles west of Montpelier.	1.84	1950-73	1- 4-73	10.5	56
04186800	King Run near Harrod, Ohio	Lat 40°43'56", long 83°53'47", Allen County, at culvert on U.S. Highway 30 South, 0.9 mile west of Allen-Hardin County line, 2.2 miles northeast of Harrod.	.53	1966-73	7-22-73	20.06	71
04189100	Tiderishi Creek near Jenera, Ohio	Lat 40°55'53", long 83°43'39", Hancock County, at culvert on State Highway 698, 2.2 miles north of Jenera.	4.65	1947-73	5-25-73	14.35	370
04190500	Roller Creek at Ohio City, Ohio	Lat 40°46'16", long 84°38'15", Van Wert County, at bridge on county road, 0.8 mile west of Ohio City.	5.24	1947-48#, 1949-73	6- 5-73	8.27	240
04192900	Beitz Run at Waterville, Ohio	Lat 41°29'50", long 83°42'35", Wood County, at culvert on State Highways 64 and 65, 0.1 mile upstream from mouth, 0.5 mile southeast of Waterville.	1.06	1966-73	11-13-72	17.63	13
04196700	St. James Run near Upper Sandusky, Ohio	Lat 40°46'53", long 83°18'05", Wyandot County, 500 ft upstream from bridge on State Highway 67, 3.5 miles southwest of Upper Sandusky.	5.29	1947-73	11-14-72	11.80	205
04197100	Honey Creek at Melmore, Ohio	Lat 41°01'20", long 83°06'35", Seneca County, at bridge on State Highways 67 and 100 at Melmore, 1.5 miles upstream from Buckeye Creek.	149	1961-73	11-14-72	7.87	1,790
04197300	Wolf Creek at Bettsville, Ohio	Lat 41°14'58", long 83°14'08", Seneca County, at bridge on State Highway 590 at Bettsville, 3.5 miles upstream from East Branch Wolf Creek.	66.2	1961-73	11-14-72	6.64	1,900
04197400	East Branch Wolf Creek at Fort Seneca, Ohio	Lat 41°12'40", long 83°10'50", Seneca County, at bridge on County Road 38, 0.8 mile west of Fort Seneca, 2.2 miles downstream from Sauff Creek.	70.1	1961-73	6- 6-73	11.65	1,900
04197500	Havens Creek at Havens, Ohio	Lat 41°17'36", long 83°11'50", Sandusky County, at bridge on County Road 12, 0.8 mile southwest of Havens, 1.0 miles upstream from mouth.	4.28	1947-49#, 1950-73	6- 6-73	6.74	180
04198100	Norwalk Creek near Norwalk, Ohio	Lat 41°13'58", long 82°32'28", Huron County, at bridge on county road, 300 feet south of junction of State Highways 601 and 18, 4 miles southeast of Norwalk, 6 miles upstream from mouth.	4.92	1947-73	4-28-73	13.72	380
04199800	Neff Run near Litchfield, Ohio	Lat 41°12'33", long 82°01'26", Lorain County, at culvert on State Highway 76, 0.7 mile north of county line, 2.8 miles north of Litchfield.	.76	1966-73	4-27-73	20.17	130
04200100	Plum Creek at Oberlin, Ohio	Lat 41°17'15", long 82°13'12", Lorain County, at bridge on Professor Street in Oberlin.	4.83	1947-73	11- 2-69 11-13-72	12.24 12.40	b/234 253

See footnotes on end of table, p. 221.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Streams tributary to Lake Erie--Continued					
04210090	Montville Ditch at Montville, Ohio	Lat 41°36'04", long 81°03'03", Geauga County, at culvert on State Highway 528, 0.4 mile south of Montville.	.29	1969-73	11-14-72	10.10	28
04210100	Hoskins Creek at Hartsgrove, Ohio	Lat 41°36'00", long 80°57'12", Ashtabula County, at culvert on State Highway 534, 0.4 mile south of Hartsgrove, 4,000 feet downstream from former site.	5.42	1947-73	6- 4-73	7.71	195
04212600	Hubbard Run tributary at Ashtabula, Ohio	Lat 41°50'36", long 80°46'42", Ashtabula County, at culvert on Seven Hills Road, 0.5 mile upstream from mouth, 1.6 miles south of center of Ashtabula.	.88	1966-73	4-27-73	16.59	111

* Also a low-flow partial-record station.
# Operated as a continuous-record station.
< Less than.
a Regulation by reservoir 0.4 mile upstream.
b Revised.
c Peak stage did not reach bottom of gage.
d Estimated.

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1973

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 3		Beaver River basin				
Beech Creek	Mahoning River	Lat 40°56'03", long 81°08'23", Stark County, at bridge on Aebi Avenue, 1.6 miles southwest of Bolton, Ohio.	17.4	1942-51#	9-18-73	*0.74
Willow Creek	Mahoning River	Lat 41°01'32", long 81°04'37", Portage County, 700 feet downstream from bridge on Notman Road, 1.4 miles west of Deerfield, Ohio.	6.49	-	9-18-73	* .07
Island Creek	Mahoning River	Lat 40°58'50", long 81°00'37", Mahoning County, 0.5 mile downstream from bridge on 12th Street Road, 0.2 mile southeast of North Benton, Ohio.	5.91	-	9-18-73	0
Mill Creek	Mahoning River	Lat 41°00'01", long 80°58'07", Mahoning County, at county road bridge, 1 mile upstream from flowline of Berlin Reservoir, 1.2 miles upstream from Turkeybroth Creek, 2 miles southwest of Berlin Center, Ohio.	19.1	1942-71# 1972	9- 5-73 9-18-73	* .57 * .48
Walnut Creek	Mosquito Creek	Lat 41°19'28", long 80°43'53", Trumbull County, at bridge on State Highway 46 in southeastern part of Cortland, Ohio.	9.68	-	9-17-73	* .04
Mosquito Creek	Mahoning River	Lat 41°28'58", long 80°44'49", Trumbull County, at bridge on State Highway 46, 1.4 miles north of Greene, Ohio.	22.2	-	9-17-73	* .09
Mosquito Creek tributary	Mosquito Creek	Lat 41°28'18", long 80°44'48", Trumbull County, at bridge on State Highway 46, 0.7 mile north of Greene, Ohio.	3.78	-	9-17-73	0
		Cross Creek basin				
Cross Creek	Ohio River	Lat 40°19'03", long 80°37'45", Jefferson County, adjacent to County Road 74, 1.3 miles east of Gould, 1 mile southwest of Mingo Junction, Ohio, 1.6 miles upstream from mouth.	125	1903, 1950, 1952-53, 1959, 1962-72	a8-29-73	*14.8
		Wheeling Creek basin				
Wheeling Creek	Ohio River	Lat 40°04'05", long 80°46'49", Belmont County, at bridge on County Road 28, in Brookside, Ohio, 0.2 mile downstream from Hutton Hollow.	103	1959, 1962-72	a8-30-73	*50.4
		Muskingum River basin				
Indian Fork	Conotton Creek	Lat 40°33'36", long 81°08'55", Carroll County, 0.8 mile upstream from Pleasant Valley Run, 0.4 mile northeast of Tabor, Ohio.	23.4	-	9-12-73	*2.52
Pleasant Valley Run	Indian Fork	Lat 40°33'47", long 81°08'55", Carroll County, 0.3 mile upstream from county road, 0.8 mile north of Tabor, Ohio.	7.86	-	9-12-73	* .40
Willow Run	Indian Fork	Lat 40°35'00", long 81°11'33", Carroll County, 0.3 mile downstream from county road bridge, 2 miles north of Dellroy, Ohio.	7.30	-	9-12-73	* .52
Sugar Creek	Tuscarawas River	Lat 40°44'12", long 81°39'12", Wayne County, 1,500 feet upstream from bridge on county road, 1.1 miles northeast of West Lebanon, Ohio.	69.8	-	9-18-73	*6.92
North Fork	Sugar Creek	Lat 40°42'54", long 81°39'28", Holmes County, 1,800 feet downstream from county road bridge, 0.8 mile southeast of West Lebanon, Ohio.	17.2	-	9-18-73	*2.16
Elm Run	Sugar Creek	Lat 40°43'20", long 81°35'21", Stark County, at highway bridge on east side of North Brewster, Ohio.	4.40	-	9-18-73	* .46
Middle Fork	Sugar Creek	Lat 40°40'48", long 81°37'12", Stark County, 700 feet downstream from bridge on Stoneford Road, 1.8 miles northeast of Wilmot, Ohio.	44.0	-	9-18-73	*6.48
South Fork	Sugar Creek	Lat 40°30'55", long 81°37'25", Tuscarawas County, at bridge on county road, 1.3 miles northeast of center of Sugar Creek, Ohio.	34.7	-	9-18-73	*2.49
East Branch	South Fork Sugar Creek	Lat 40°30'32", long 81°36'53", Tuscarawas County, at bridge on State Highway 39, 1.5 miles northeast of center of Sugar Creek, Ohio.	27.3	-	9-18-73	*4.43
Walnut Creek	South Fork Sugar Creek	Lat 40°32'17", long 81°41'45", Holmes County, at bridge on county road, 1.4 miles east-southeast of Walnut Creek, Ohio.	13.3	-	9-18-73	* .59

See footnotes at end of table, p. 226.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Muskingum River basin--Continued				
Goose Creek	Walnut Creek	Lat 40°32'40", long 81°41'35", Holmes County, 400 feet downstream from bridge on county road, 1.5 miles east-northeast of Walnut Creek, Ohio.	6.10	-	9-18-73	* .25
Indian Trail Creek	Walnut Creek	Lat 40°35'55", long 81°39'37", Tuscarawas County, at bridge on county road, 2.2 miles southeast of Winesburg, Ohio.	13.5	-	9-18-73	*1.06
South Fork tributary	South Fork Sugar Creek	Lat 40°38'04", long 81°35'05", Tuscarawas County, at bridge on New York, Chicago and St. Louis Railway, 1.3 miles south of Beach City, Ohio.	4.09	-	9-18-73	* .63
Clear Fork (head of Little Stillwater Creek)	Stillwater Creek	Lat 40°20'12", long 81°05'08", Harrison County, at county road bridge, 2.2 miles south-southwest of Hanover, Ohio.	21.5	-	9-17-73	* .45
Standingstone Fork	Clear Fork (head of Little Stillwater Creek)	Lat 40°16'16", long 81°05'58", Harrison County, 0.9 mile downstream from county road bridge, 1.5 miles northwest of Asbury Chapel, Ohio.	10.8	-	9-17-73	*1.60
Beaverdam Run	Little Stillwater Creek	Lat 40°20'42", long 81°08'00", Harrison County, 0.4 mile downstream from county road bridge, 0.3 mile southwest of Mount Hope Church, Ohio	3.77	-	9-17-73	0
Black Fork	Mohican River	Lat 40°51'55", long 82°26'24", Richland County, at bridge on State Highway 545, 1.7 miles south-southwest of Olivesburg, Ohio.	145	-	9-13-73	*12.5
Whetstone Creek	Black Fork Mohican River	Lat 40°52'10", long 82°25'44", Richland County, at bridge on Vantilburg Road, 0.5 mile east of State Highway 545, 1.1 miles south of Olivesburg, Ohio.	16.8	-	9-13-73	* .70
Black Fork tributary	Black Fork Mohican River	Lat 40°46'39", long 82°24'32", Richland County, 0.1 mile upstream from mouth, 1.1 miles southwest of Five Points, Ohio.	8.29	-	9-13-73	* .26
Smokey Run	Clear Fork Mohican River	Lat 40°35'21", long 82°25'16", Richland County, 900 feet downstream from bridge on State Highway 97 at Butler, Ohio.	6.50	-	9-14-73	* .35
Slater Run	Clear Fork Mohican River	Lat 40°35'26", long 82°25'08", Richland County, 0.3 mile downstream from bridge on State Highway 97 at Butler, Ohio.	8.47	-	9-14-73	* .54
Possum Run	Clear Fork Mohican River	Lat 40°37'46", long 82°24'18", Richland County, 200 feet downstream from bridge on Possum Run Road at Newville Church, Ohio.	14.7	-	9-13-73	*2.25
Switzer Creek	Clear Fork Mohican River	Lat 40°38'55", long 82°23'25", Richland County, 1,500 feet downstream from bridge on Bromfield Road, 4 miles south-southeast of Lucas, Ohio.	11.0	-	9-13-73	*3.09
Bowling Green Run	Licking River	Lat 40°04'20", long 82°18'50"; Licking County, 300 feet upstream from bridge on State Highway 16 at west edge of Marne, Ohio.	4.96	-	9-11-73	* .71
Claylick Creek	Licking River	Lat 40°02'56", long 82°18'14", Licking County, 1,200 feet upstream from bridge on county road, 1.2 miles southwest of Claylick, Ohio.	19.2	-	9-11-73	*1.22
Rocky Fork	Licking River	Lat 40°05'25", long 82°16'20", Licking County, at bridge on county road, 0.9 mile northwest of Hanover, Ohio.	74.8	-	9-11-73	*11.9
Brushy Fork	Licking River	Lat 40°02'16", long 82°15'02", Licking County, at covered bridge, 2.4 miles southeast of Claylick, Ohio.	15.8	-	9-11-73	* .54
Stump Run	Licking River	Lat 40°03'58", long 82°07'08", Muskingum County, at bridge on County Road 56, 3.6 miles south of Frazeysburg, Ohio.	3.45	-	9-11-73	* .31
Big Run	Licking River	Lat 40°05'30", long 82°03'44", Muskingum County, 400 feet downstream from bridge on State Highway 77, 3.4 miles southwest of Dresden, Ohio.	5.64	-	9-11-73	* .16
Moxahala Creek	Muskingum River	Lat 39°53'48", long 82°00'20", Muskingum County, 0.5 mile upstream from mouth, 1 mile east of South Zanesville, Ohio.	302	1959, 1962-72	6-11-73 a9-13-73	*174 *29.9
		Hocking River basin				
Monday Creek	Hocking River	Lat 39°26'07", long 82°11'30", Athens County, at highway bridge in Doanville, Ohio 1.8 miles upstream from mouth.	114	1956, 1961-72	a9-12-73	*8.92

See footnotes at end of table, p. 226.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Scioto River basin				
Rush Run	Olentangy River	Lat 40°04'36", long 83°01'23", Franklin County, at Walnut Grove Cemetary, 0.5 mile upstream from mouth in Worthington, Ohio.	2.50	-	6-19-73	†1,100
Turkey Run	Olentangy River	Lat 40°02'09", long 83°03'03", Franklin County, at culvert on Kenny Road, 1.0 mile downstream from crest-stage gaging station, 1.3 miles upstream from mouth at Upper Arlington, Ohio.	1.74	-	6-19-73	†1,900
Eversole Run	Scioto River	Lat 40°10'27", long 83°08'32", Delaware County, 0.4 mile downstream from bridge on county road, 1 mile north of center of Shawnee Hills, Ohio.	10.8	-	9- 6-73	*.98
Olentangy River	Scioto River	Lat 40°31'40", long 83°00'48", Marion County, at bridge on Firstenberger Road, 5.8 miles northeast of Waldo, Ohio.	174	-	9- 6-73	*7.14
Grave Creek	Riffle Creek	Lat 40°31'17", long 83°03'30", Marion County, at bridge on State Highway 98, 4.4 miles north-northeast of Waldo, Ohio.	11.0	-	9- 6-73	*.93
Riffle Creek	Olentangy River	Lat 40°31'40", long 83°02'25", Marion County, at bridge on Firstenberger Road, 5.2 miles north-northeast of Waldo, Ohio.	16.6	-	9- 6-73	*.27
Qu Qua Creek	Olentangy River	Lat 40°29'55", long 83°05'17", Marion County, at bridge on Cardington Road, 2.8 miles north-northwest of Waldo, Ohio.	12.0	-	9- 6-73	0
Big Walnut Creek	Scioto River	Lat 40°12'55", long 82°52'45", Delaware County, at county road bridge at south edge of Galena, Ohio.	110	-	9- 7-73	*12.3
Little Walnut Creek	Big Walnut Creek	Lat 40°13'32", long 82°53'14", Delaware County, at bridge on State Highway 3, 0.8 mile northwest of Galena, Ohio.	32.1	-	9- 7-73	*1.63
Duncan Run	Big Walnut Creek	Lat 40°08'42", long 82°51'15", Delaware County, 800 feet upstream from county road bridge, 1 mile southwest of Harlem, Ohio.	14.7	-	9- 7-73	*11.5
Deer Creek	Scioto River	Lat 39°39'35", long 83°15'46", Fayette County, at bridge on Cook-Yankeetown Road, 0.3 mile east of Yankeetown, Ohio.	237	-	9- 7-73	*56.7
Duffs Fork	Deer Creek	Lat 39°39'21", long 83°16'16", Fayette County, at bridge on State Highway 277, 4.2 miles south of Mount Sterling, Ohio.	12.5	-	9- 7-73	*1.35
Clark Run	Deer Creek	Lat 39°38'02", long 83°14'14", Pickaway County, at flowline of Deer Creek Reservoir, 1.1 miles downstream from bridge on Dawson-Yankeetown Road, 1.7 miles southeast of Yankeetown, Ohio.	6.46	-	9- 7-73	*.69
Rocky Fork	Paint Creek	Lat 39°10'48", long 83°33'05", Highland County, at county road bridge, 3.6 miles southeast of center of Hillsboro, Ohio.	33.4	-	9- 5-73	*6.68
Clear Creek	Rocky Fork	Lat 39°12'45", long 83°33'00", Highland County, at bridge on U.S. Highway 50, 2 miles upstream from mouth at Rocky Fork Lake, 3.4 miles east of the center of Hillsboro, Ohio.	35.4	1965	9- 5-73	*5.98
Blinco Branch	Rocky Fork	Lat 39°12'00", long 83°27'33", Highland County, at bridge on county road, 1.7 miles northwest of McCoppin Mill, Ohio.	5.85	-	9- 5-73	*.56
Rocky Fork	Paint Creek	Lat 39°10'57", long 83°26'15", Highland County, at bridge on county road, 0.2 mile downstream from Rocky Fork Dam, at McCoppin Mill, Ohio.	114	-	9- 5-73	27.5
Scioto River	Ohio River	Lat 39°04'15", long 83°01'00", Pike County, at bridge on U.S. Highway 23 in Piketon, Ohio.	5,836	1949, 1953-54, 1962-69, 1971	11- 9-72	23,600
		White Oak Creek basin				
Sterling Run	White Oak Creek	Lat 39°01'42", long 83°55'18", Brown County, at bridge on State Highway 74 at Mount Orab, Ohio.	20.5	-	9- 7-73	*.67
Plum Creek	Sterling Run	Lat 39°00'47", long 83°56'18", Brown County, at bridge on Pleasant Hill Road, 1.4 miles southwest of Mount Orab, Ohio.	2.02	-	9- 7-73	0
Sterling Run	White Oak Creek	Lat 38°59'47", long 83°55'44", Brown County, at bridge on State Highway 774, 2.2 miles southwest of Mount Orab, Ohio.	26.3	-	9- 6-73	*6.30

See footnotes at end of table, p. 226.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Little Miami River basin				
Caesar Creek	Little Miami River	Lat 39°39'28", long 83°45'54", Greene County, at bridge on Quarry Road, 1.6 miles west of Jamestown, Ohio.	9.38	-	9- 7-73	*.25
Caesar Creek	Little Miami River	Lat 39°38'45", long 83°47'45", Greene County, at bridge on Jasper Road, 3.4 miles west-southwest of Jamestown, Ohio.	10.9	-	9- 7-73	.52
		Mill Creek basin				
West Fork Mill Creek	Mill Creek	Lat 39°13'35", long 84°27'20", Hamilton County, at bridge on Lock Street in Lockland, Ohio, 1.2 miles upstream from mouth.	35.6	1938-57≠, 1968, 1972	3-5-73	556
		Great Miami River basin				
South Fork	Great Miami River	Lat 40°28'28", long 83°50'25", Logan County, at county road bridge 1 mile upstream from Indian Lake, 3 miles east of Russells Point, Ohio.	50.0	-	9-11-73	*8.58
North Fork	Great Miami River	Lat 40°30'40", long 83°49'24", Logan County, at bridge on State Highway 117, 4.6 miles northeast of Russells Point, Ohio.	19.9	-	9-11-73	*.45
Great Miami River	Ohio River	Lat 40°27'55", long 83°52'44", Logan County, at bridge on U.S. Highway 33, 0.2 mile downstream from outlet of Indian Lake, 0.8 mile east of Russells Point, Ohio.	99.8	-	9-11-73	.18
Loramie Creek	Great Miami River	Lat 40°24'16", long 84°16'02", Shelby County, at bridge on State Highway 29, 0.8 mile northwest of McCartyville, Ohio.	43.6	-	9-10-73	*1.16
Loramie Creek	Great Miami River	Lat 40°21'35", long 84°22'26", Shelby County, at bridge on State Highway 66, 0.5 mile north of Fort Loramie, Ohio.	77.7	-	9-10-73	*1.32
Spring Creek	Great Miami River	Lat 40°05'18", long 84°10'27", Miami County, adjacent to DeWeese Road, 600 feet south of Rusk Road, 2.5 miles upstream from mouth 3 miles north-northeast of Troy, Ohio.b/	21.0	1968-72	10-17-72 11-28-72 1-18-73 2-27-73 4- 5-73 5-22-73 7-18-73 9- 6-73	*14.8 *37.8 * 9.77 * 8.74 122 *10.9 * 6.70 * 4.29
Lost Creek	Great Miami River	Lat 40°01'05", long 84°09'28", Miami County, at bridge on Knoop Road, 0.2 mile south of State Highway 41, 2.8 miles southeast of Troy, Ohio, 2.8 miles southwest of Casstown, 4.3 miles upstream from mouth.b/	58.3	1959, 1961-72	10-17-72 11-28-72	*31.7 86.3
Wolf Creek	Great Miami River	Lat 39°46'00", long 84°14'12", Montgomery County, at bridge on West Riverview Avenue in Dayton, Ohio, 1.8 miles upstream from mouth.b/	68.7	1913, 1939-50≠, 1953-72	11- 8-72 6- 6-73	270 2,040
Bear Creek	Great Miami River	Lat 39°40'23", long 84°18'38", Montgomery County, at bridge on Farmersville-West Carrollton Road, 0.2 mile south of Ellerton, Ohio, 1.2 miles upstream from mouth.b/	37.8	1959, 1962-72	10-20-72	*3.20
Clear Creek	Great Miami River	Lat 39°33'06", long 84°18'18", Warren County, at bridge on Shaker Road at south edge of Franklin, Ohio, 1.6 miles upstream from mouth.b/	51.5	1959, 1961-72	11- 2-72 12-21-72 1-17-73 1-22-73	212 162 *25.0 *38.5
Sevenmile Creek	Four Mile Creek	Lat 39°31'23", long 84°36'39", Butler County, at bridge on State Road, 0.3 mile north of Collinsville, Ohio, 1 mile downstream from Ninemile Creek, 5.5 miles upstream from mouth.	120	1960-72≠	10- 4-72 11-29-72 1-22-73 2-26-73 3-15-73 4-12-73 4-30-73 6-20-73 7-21-73 8- 2-73	*13.0 134 174 *65.9 805 264 134 743 1,510 *75.8
Indian Creek	Great Miami River	Lat 39°21'45", long 84°38'35", Butler County, at bridge on Hamilton-New London Road, 1.9 miles south of Millville, Ohio, 4.3 miles upstream from mouth.b/	102	1959, 1961-72	10-17-72	*.80
		Wabash River basin				
Prairie Creek	Grand Lake	Lat 40°29'15", long 84°31'29", Mercer County, at bridge on State Highway 219, 1.4 miles east of Montezuma, Ohio.	5.26	-	9-10-73	*.01

See footnotes at end of table, p. 226.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Wabash River basin--Continued				
Beaver Creek	Grand Lake	Lat 40°28'48", long 84°33'00", Mercer County, at bridge on Guadalupe Road, 0.6 mile south of Montezuma, Ohio.	20.4	-	9-10-73	*.08
Coldwater Creek	Grand Lake	Lat 40°30'15", long 84°35'30", Mercer County, at bridge on Coldwater Creek Road, 2.5 miles northwest of Montezuma, Ohio.	19.2	-	9-10-73	*.58
Part 4		Streams tributary to Lake Erie				
Chickasaw Creek	Grand Lake	Lat 40°29'41", long 84°28'25", Mercer County at bridge on State Highway 703, 5.8 miles southwest of St. Marys, Auglaize County, Ohio.	18.4	-	9-10-73	*0.35
Little Chickasaw Creek	Grand Lake	Lat 40°29'41", long 84°27'21", Mercer County, at bridge on State Highway 703, 5 miles southwest of St. Marys, Ohio.	7.03	-	9-10-73	*.02
Barnes Creek	Grand Lake	Lat 40°30'16", long 84°26'04", Auglaize County, at bridge on State Highway 364, 3.8 miles southwest of St. Marys, Ohio.	3.59	-	9-10-73	0
Auglaize River	Maumee River	Lat 40°44'36", long 84°18'57", Allen County, at bridge on State Highway 81, 0.5 mile upstream from Sixmile Creek, 3.1 miles northeast of intersection of State Highways 66 and 117 in Spencerville, Ohio.	219	1970-72	10-20-72	64.8
					2- 8-73	130
					4- 9-73	202
					5-30-73	132
					8-16-73	1,330
					9-20-73	12.3
Miami and Erie Canal	Jennings Creek	Lat 40°51'35", long 84°20'25", on Van Wert-Putnam County Line, at bridge on Pohlman Road, 0.9 mile north of Delphos, Ohio.	---	1928-33#,	10-19-72	3.72
				1934-35,	12-11-72	2.45
				1945-72	2- 9-73	1.20
					4-10-73	6.87
					5-30-73	5.62
					7-31-73	7.24
					9-19-73	2.63
Blanchard River	Auglaize River	Lat 41°02'02", long 83°34'46", Hancock County, at pump house no. 2 for Findlay Reservoir, 4 miles east of Findlay, Ohio.	233	1970-72	10-16-72	102
					2-12-73	67.8
					4- 3-73	271
					6- 8-73	1,360
					7-31-73	60.0
					9-27-73	5.29
Tymochtee Creek	Sandusky River	Lat 40°42'58", long 83°23'32", Wyandot County, at bridge on township road, 1 mile north of Marseilles, Ohio, 1.1 miles downstream from intake to Killdeer Reservoir.	137	1970-72	10-27-72	23.6
					12-18-72	131
					12-22-72	533
					2-16-73	48.6
					4-11-73	287
					5- 7-73	33.0
					6-15-73	19.2
					7-10-73	21.0
					7-11-73	44.4
					7-12-73	21.5
					7-17-73	11.5
					7-19-73	6.0
					7-20-73	4.96
					8- 1-73	30.7
					9-17-73	19.3
					9-18-73	14.0
Beaver Creek	Green Creek	Lat 41°13'47", long 83°01'15", Seneca County, at bridge on State Highway 101, 0.1 mile downstream from junction of Emerson Creek and Westerhouse ditch 5.8 miles southwest of Clyde, Ohio.	43.9	1968	9-17-73	*.35
West Branch Huron River tributary	West Branch Huron River	Lat 41°04'46", long 82°43'44", Huron County, at bridge on Egypt Road, 1.6 miles north of Willard, Ohio.	5.66	-	9-17-73	*.33
Holiday Lake tributary	West Branch Huron River tributary	Lat 41°04'57", long 82°43'17", Huron County, 0.2 mile downstream from bridge on Egypt Road, 1.8 miles north of Willard, Ohio.	1.73	-	9-17-73	1.48
Holiday Lake tributary	West Branch Huron River tributary	Lat 41°05'28", long 82°42'36", Huron County, 0.1 mile upstream from bridge on Maple Ridge Road, 2.6 miles northeast of Willard, Ohio.	2.82	-	9-17-73	0

* Base flow.
† Peak flow.
# Operated as a continuous-record gaging station.
a Water-quality records for the current year are published in Part 2 of this report.
b/ Data furnished by Miami Conservancy District.

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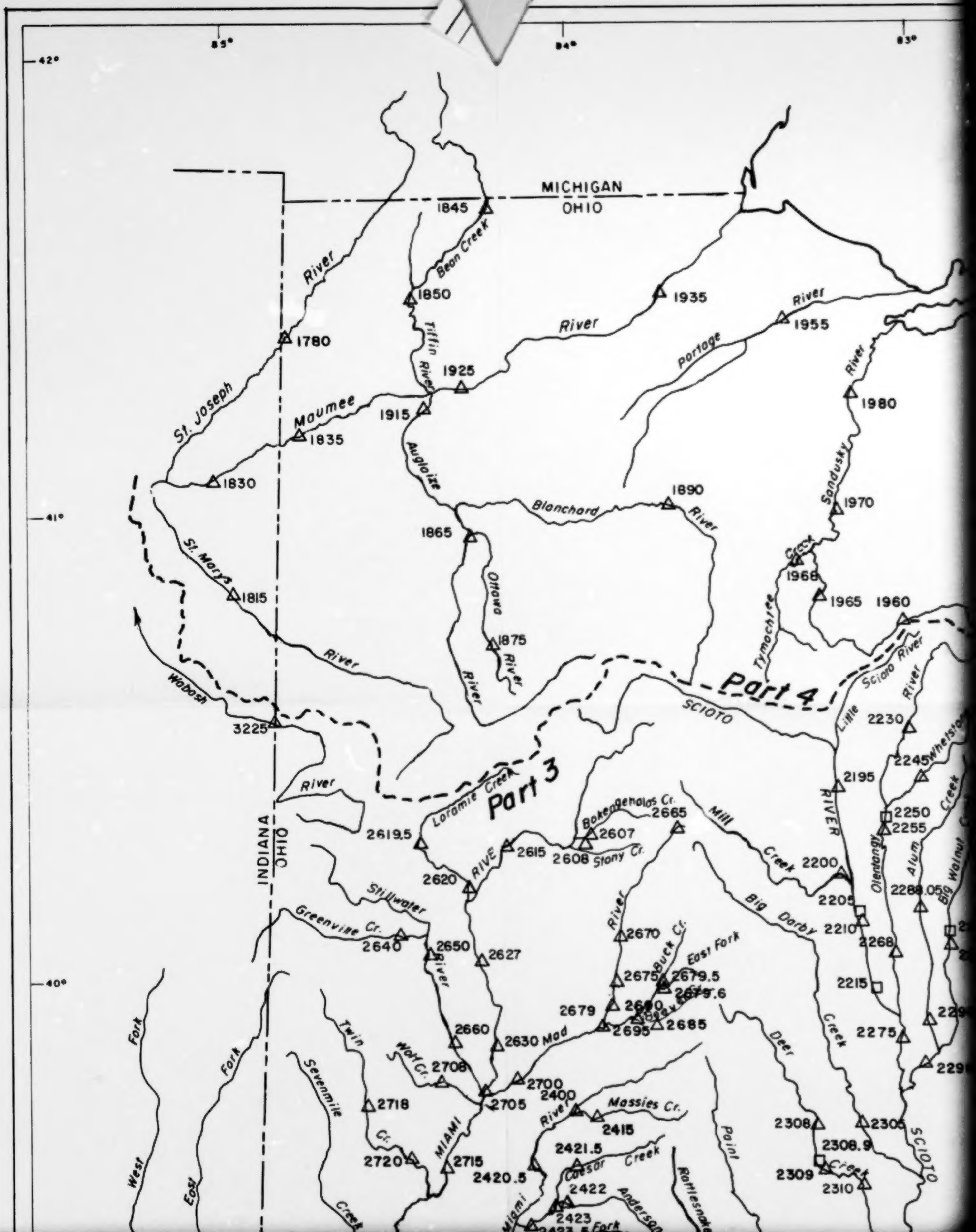
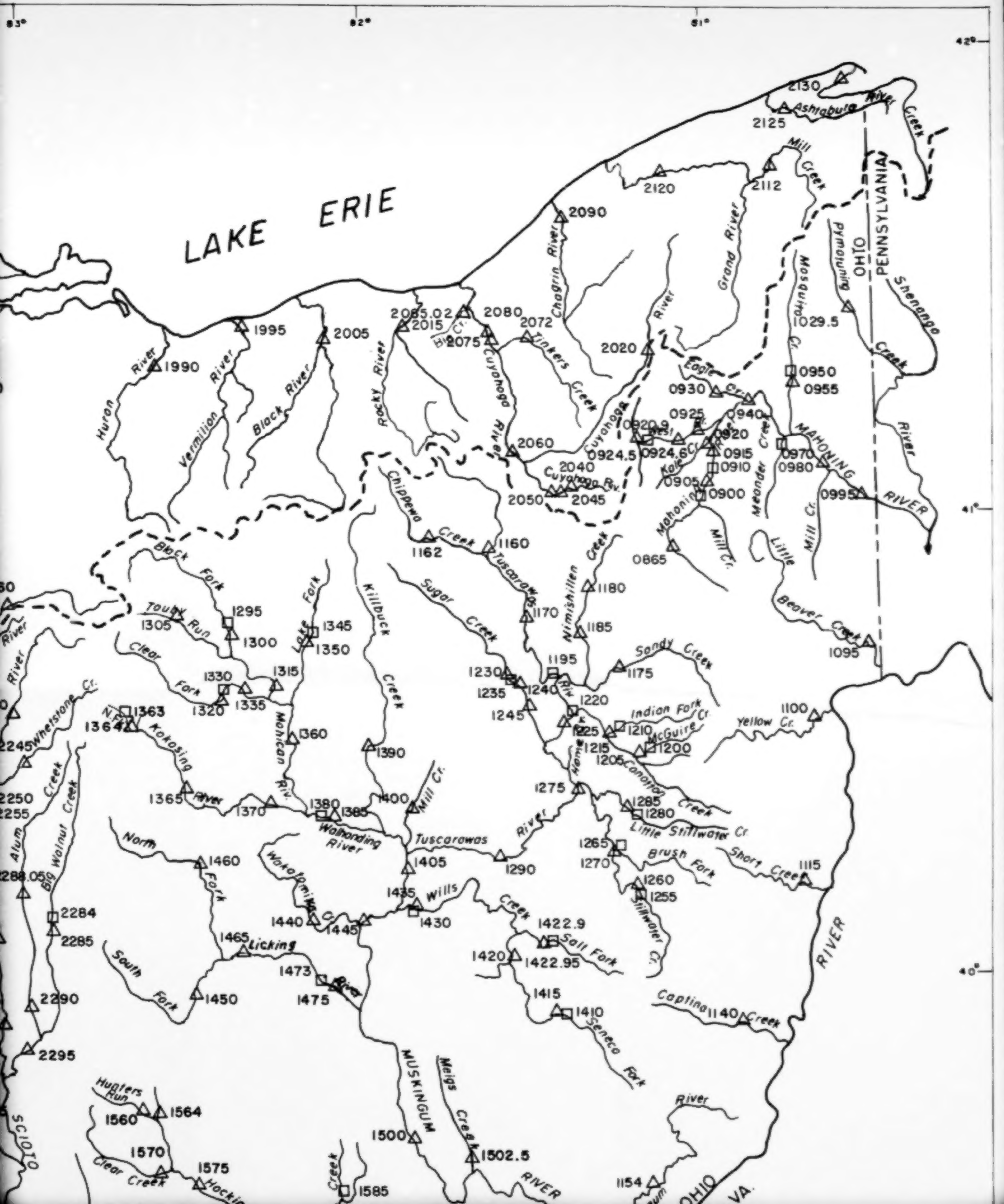
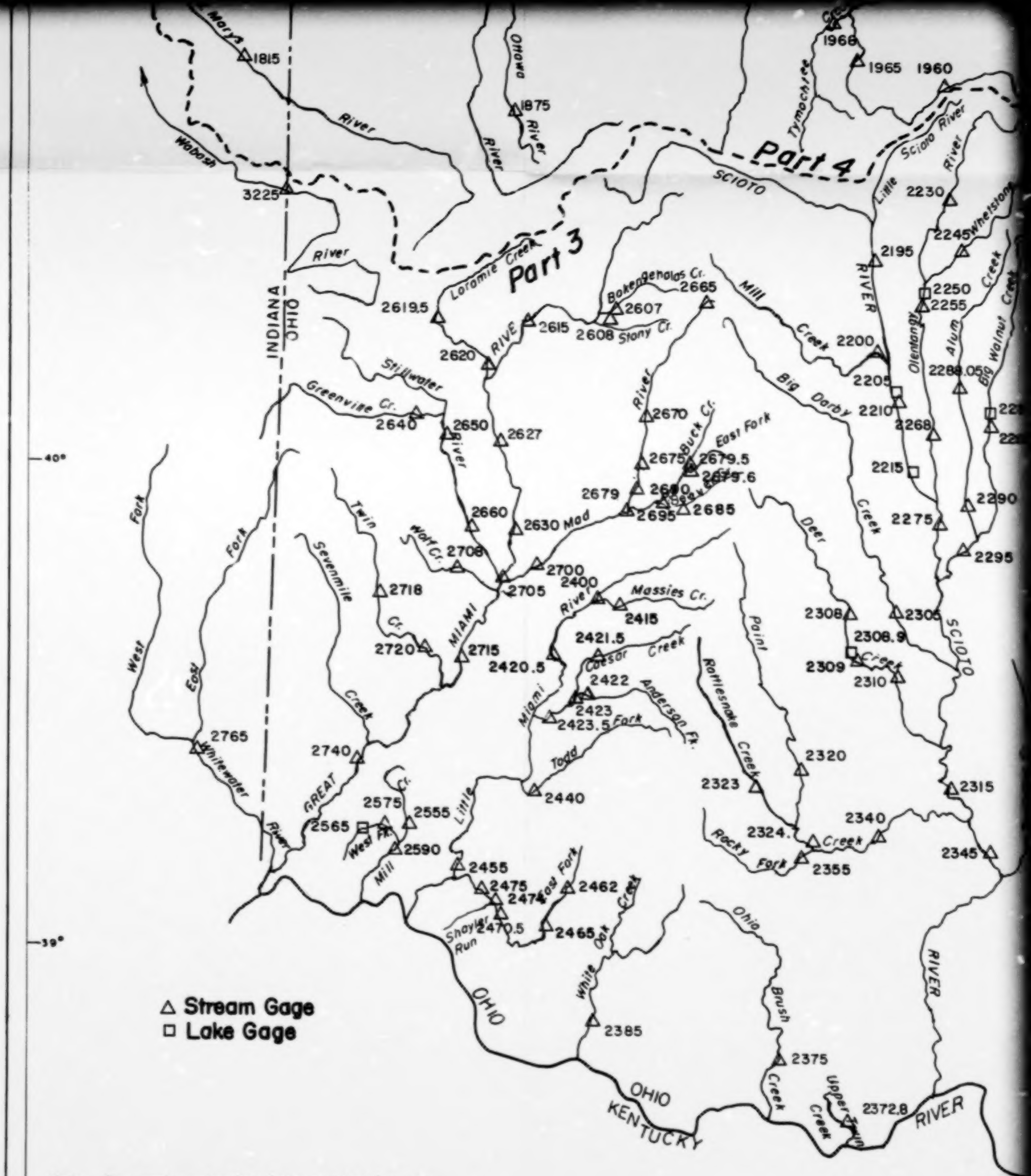

85°
84°
83°
42°
41°
40°
MICHIGAN
OHIO
INDIANA
OHIO
1845
Bean Creek
1850
Tiffin
River
St. Joseph
River
1780
Maumee
1835
1830
1925
1915
River
1935
Portage
River
1955
River
1980
Sandusky
1970
Creek
1968
1965
1960
Tymochtee
Auglaize
Blanchard
1890
River
1865
Ottawa
River
1875
River
St. Marys
1815
River
Wabash
3225
River
Part 4
Part 3
SCIOTO
Little
Scioto River
River
2230
2245
Whetstone
Creek
RIVER
2195
2250
2255
Olentangy
Alum
Big Walnut
Loramie Creek
2619.5
2620
RIVE
2615
Bokengehalas Cr.
2607
2608
Stony Cr.
2665
Mill
Creek
2200
2205
2210
Big Darby
Creek
2268
2288.05
2215
2275
Stillwater
Greenville Cr.
2640
2650
River
2627
River
2670
Buck Cr.
East Fork
2675
2679.5
2679.6
2679
2680
Beaver Creek
2685
2695
2660
2630 Mad
Deer
Creek
2708
Wolf Cr.
2700
2705
2400
River
Massies Cr.
2415
2718
Twin
Cr.
2720
MIAMI
2715
2421.5
2420.5
Caesar
Creek
2422
Anderson
2423
2423.5 Fork
Miami
Rattlesnake
Point
2308
2305
2308.9
2309
Creek
2310
SCIOTO
West
Fork
East
Fork
Sevenmile
Creek


83°
82°
81°
42°
41°
40°
LAKE ERIE
2130
2125
Ashtabula
River
Creek
Mill
Creek
2112
2120
2090
Chagrin River
Grand River
River
OHIO
PENNSYLVANIA
Pymatuning
Mosquito Cr.
1029.5
Shenango
Creek
River
1995
2005
2085.02
2015
2080
2075
2072
Big Cr.
Cuyahoga River
Tinkers Creek
2020
Huron
River
1990
Vermilion
River
Black River
Rocky River
Eagle Cr.
0950
0955
0930
0925
0940
Cuyahoga
0920.9
West
0920
0924.5
0924.6
Kale Cr.
0915
0910
0905
0900
Meander Creek
0970
0980
MAHONING
RIVER
0995
2060
2040
Cuyahoga Rv.
2050
2045
Chippewa
Creek
1162
1160
Tuscarawas
Mahoning
Mill Cr.
0865
Little
Beaver Creek
Mill Cr.
1095
Nimishillen Creek
1180
1185
1170
Black Fork
1295
Touby Run
1305
1300
Lake Fork
1345
1350
Killbuck Creek
Sugar Creek
1195
River
1175
Sandy Creek
1230
1235
1240
1220
1245
Clear Fork
1330
1335
1315
1320
1363
1364
N.F.
Kokosing
River
1365
1370
Mohican Riv.
1360
1390
Indian Fork Cr.
1210
McGuire Cr.
1225
1215
1200
1205
Conotton Creek
Yellow Cr.
1100
1275
Home Cr.
1285
1280
Little Stillwater Cr.
60
River
River
2245
Whetstone Cr.
Alum Creek
Big Walnut Creek
2250
2255
2288.05
2284
2285
2290
2295
1380
1385
1400
Mill Cr.
Walhonding River
Tuscarawas River
1290
North Fork
1460
Wakatomika Cr.
1405
1435
Wills Creek
1430
1440
1445
1265
1270
Brush Fork
Short Creek
1115
1260
1255
Stillwater Cr.
1422.9
Salt Fork
1420
1422.95
1465
Licking
1473
1475
River
South Fork
1450
1415
1410
Seneca Fork
Captina
1140
Creek
RIVER
MUSKINGUM
Meigs Creek
River
Hunters Run
1560
1564
1570
Clear Creek
1575
Hocking
Creek
1585
1500
1502.5
RIVER
1154
OHIO
VA.
SCIOTO



Part 3
Part 4
INDIANA
OHIO
KENTUCKY
St. Marys River
Wabash
River
Loramie Creek
Ottawa River
Tymochtee Creek
SCIOTO
Little Scioto River
Whetstone
Olentangy
Alum Creek
Big Walnut Creek
Mill Creek
Big Darby Creek
Deer Creek
Paint Creek
Rattlesnake Creek
Rocky Fork
Ohio Brush Creek
Upper Twin Creek
Stillwater River
Greenville Cr.
Twin Cr.
Sevenmile Creek
Wolf Cr.
Mad River
Buck Cr.
East Fork
Beaver Cr.
Bokengehalas Cr.
Stony Cr.
Massies Cr.
Caesar Creek
Anderson Fk.
Todd Fork
Little Miami River
East Fork
Shayler Run
White Oak Creek
West Fork
East Fork
Whitewater
GREAT MIAMI River
West Fk. Mill Cr.
OHIO RIVER
Stream Gage
Lake Gage
1815
1875
1966
1965
1960
3225
2230
2245
2195
2250
2255
2200
2205
2210
2268
2215
2288.059
2290
2275
2295
2305
2308
2308.9
2309
2310
2315
2340
2345
2320
2323
2324
2355
2375
2372.8
2385
2619.5
2620
2615
2608
2607
2665
2640
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2627
2670
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2679.5
2679.6
2679
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2685
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2421.5
2420.5
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2715
2422
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2555
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2455
2475
2474
2462
2470.5
2465
85°
84°
83°
40°
39°

Note - The part number has been omitted from the station number on this map. The part number is 03 for streams tributary to the Ohio River and 04 for streams tributary to Lake Erie.

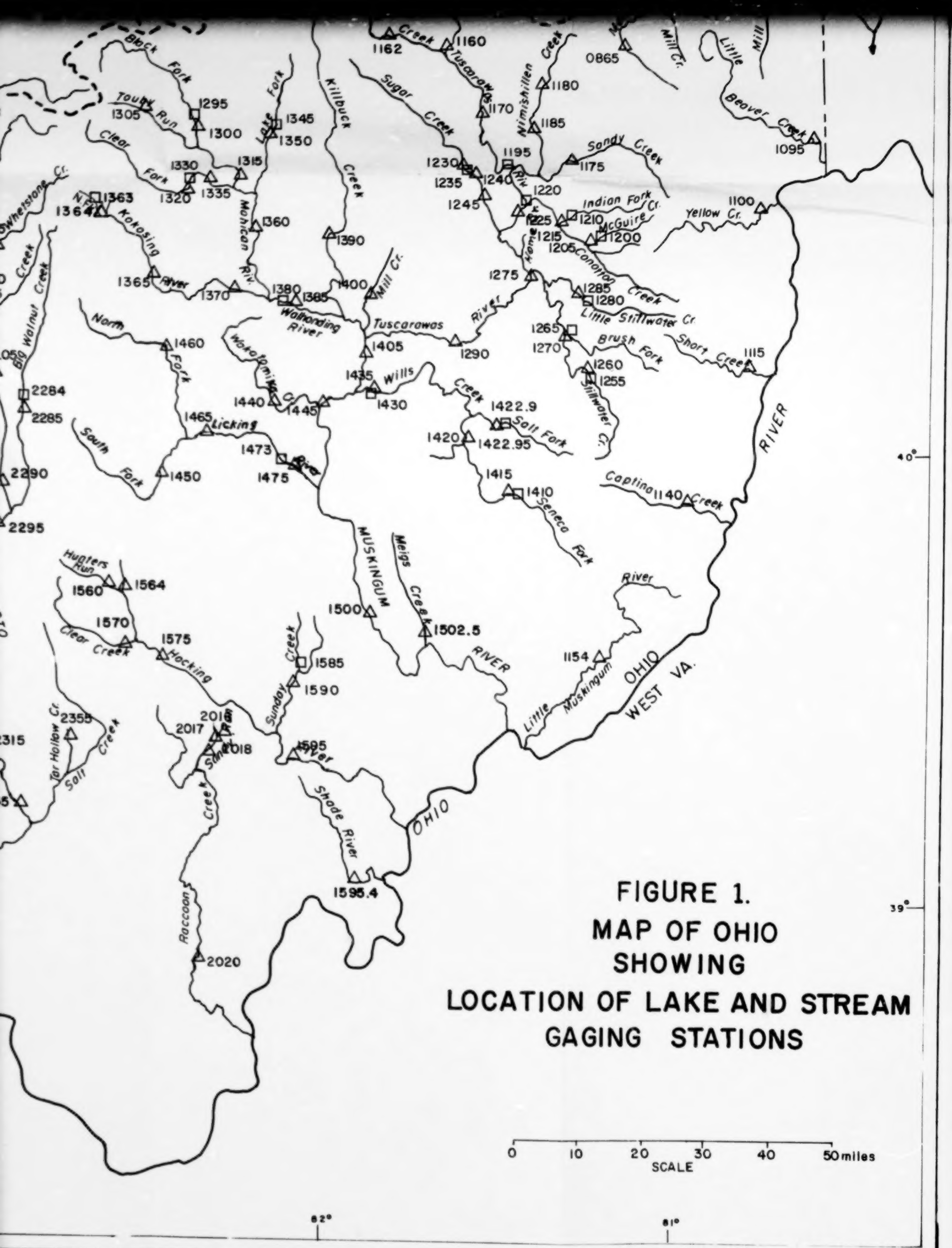
Black Fork
Touby Run
1305
1295
1300
Lake Fork
1345
1350
Clear Fork
1330
1315
1320
1335
Owl Creek
N. Fork
1363
1364
Kokosing River
1365
1370
Mohican Riv.
1360
Killbuck Creek
1390
1400
Mill Cr.
1380
1385
Walhonding River
Creek
1162
1160
Tuscarawas
Sugar Creek
1170
Nimishillen Creek
1180
1185
0865
Mill Cr.
Little Beaver Creek
1095
Sandy Creek
1175
1195
1230
1235
1240
1245
1220
Indian Fork Cr.
1225
1210
1215
McGuire Cr.
1200
1205
Conotton Creek
Yellow Cr.
1100
1275
1285
1280
Little Stillwater Cr.
Tuscarawas River
1290
1405
1265
1270
Brush Fork
Short Creek
1115
1260
1255
Stillwater Cr.
North Fork
1460
Big Walnut Creek
2284
2285
2290
2295
Wakatomika Cr.
1440
1445
1435
Wills Creek
1430
1422.9
Salt Fork
1420
1422.95
1465
Licking River
1473
1475
South Fork
1450
1415
1410
Seneca Fork
Captina Creek
1140
RIVER
MUSKINGUM RIVER
Meigs Creek
1500
1502.5
Hunters Run
1560
1564
1570
1575
Clear Creek
Hocking River
Sunday Creek
1585
1590
River
1154
Little Muskingum
OHIO
WEST VA.
Tar Hollow Cr.
2355
Salt Creek
2315
2016
2017
2018
Sandy Run
Creek
1595
Shade River
1595.4
OHIO
Raccoon Creek
2020
0
10
20
30
40
50 miles
SCALE
40°
39°
82°
81°

FIGURE 1.
MAP OF OHIO
SHOWING
LOCATION OF LAKE AND STREAM
GAGING STATIONS